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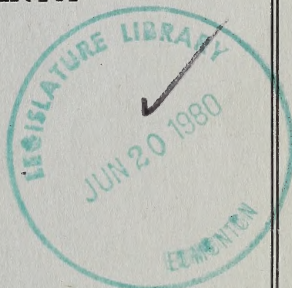


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ANNUAL REPORT
OF
THE MINES BRANCH
OF THE
Department of Lands and Mines
OF THE
PROVINCE OF ALBERTA

1933



EDMONTON:
PRINTED BY W. D. McLEAN, KING'S PRINTER
1934

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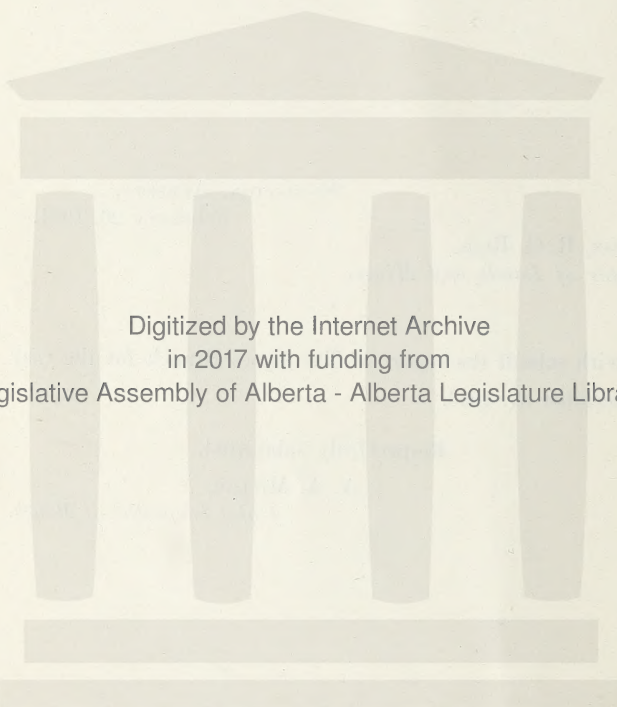
EDMONTON, ALBERTA,
February 26, 1934.

TO THE HON. R. G. REID,
Minister of Lands and Mines.

SIR,—

I herewith submit the report of The Mines Branch for the year ending December 31, 1933.

Respectfully submitted,
A. A. MILLAR,
Chief Inspector of Mines.



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ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR ENDED DECEMBER 31st, 1933.

(A. A. MILLAR, *Chief Inspector.*)

The output of coal produced from mines in the Province during the year was 4,714,784 tons with a valuation of \$12,197,339.20, a decrease of 155,246 tons from the output for 1932. In addition to the above tonnage there were 2,730 tons produced by farmers for their own use, under permits, which has not been included in the total output, also we believe that there was a considerable tonnage produced by farmers, without permit or lease, of which we have no record.

There has been a considerable increase in the tonnage of coke produced in the Crowsnest Pass area, the bulk of which is being used at the Trail, British Columbia, Smelter.

Of the total output produced by the mines, 1,123,357 tons were sold for consumption in the Province of Alberta, 1,662,971 tons in other provinces of Canada, 18,449 tons for consumption in the United States, 1,500,061 tons sold to railroad companies, 14,935 tons used making briquettes, 75,275 tons used making coke, 180,159 tons used under colliery boilers, 5,994 tons used by colliery railroads, 38,004 tons put to stock, and 136,679 tons put on the waste heap.

The coal produced by farmers under permits is not included in the output, nor are the particulars as to men producing such coal included in any tables, a table being inserted giving all particulars. This being done in order that there should be no confusion of the regular statistics.

During the year there was in operation 1 shale pit producing 3,234 tons of clay and shale, from which 1,221,060 bricks were made.

There were 338 coal mines in operation during the year, of which 40 were opened, 11 reopened, and 28 abandoned. In addition to the mines abandoned there were 30 mines temporarily closed, leaving 295 mines in operation at December 31st, 1933.

There were no changes in the staff during the year. There were, however, changes made as affecting the Crowsnest and Drumheller areas. The Crowsnest has been consolidated into one area, with Mr. Moses Johnson, District Inspector of Mines, Blairmore, in charge, and the Wayne district of the Drumheller area has been transferred from Mr. A. B. Hunter to Mr. W. G. Heeley, whose headquarters are in the Old Telephone Building, Calgary.

There were 419 persons examined during the year for certificates of competency as coal-miners, of whom 360 were successful, making a total of 13,360 certificates issued to coal-miners to December 31st, 1933.

In addition to testing the mine air with Burrell and McLuckie Gas Detectors, in the various mines throughout the Province, samples of mine air have been taken at intervals during the year by the inspectors from mines in the bituminous areas and forwarded

to the Chemistry Branch of the Department of Mines, Ottawa, for analysis.

Samples of rock dust, used for rock-dusting the roadways in the bituminous mines, have been collected and forwarded to the Provincial Analyst to be tested for silica content.

Samples of coal have been collected and forwarded to the Industrial Research Department, University of Alberta, for analysis.

In addition to the regular inspections of all mines by the District inspectors, all serious and fatal accidents were investigated and all inquests were attended by them.

It is gratifying to note the decrease in fatal accidents, there having been only 6 as compared with 11 during 1932, this being the lowest number of fatal accidents since the Province was formed.

In addition to the fatal accidents in mines, there was one person killed whilst illegally taking coal from a cut-bank near Pinhorn. This accident is not included in the number from producing mines.

There were 7 prosecutions instituted for contravention of The Coal-mines Regulation Act, made up as follows: 5 workmen and 2 operators.

There were 17,611,959 k.w. hrs. of electrical purchased power used by the mines in the Province during the year.

The purchased power was distributed as follows: Big Valley, 8,600 k.w. hrs., purchased from the Union Power Co. of Drumheller, who also supplied 3,597,429 k.w. hrs. to mines in the Drumheller area, also 177,900 k.w. hrs. to mines in the Carbon area.

The mines in the following areas were supplied with purchased electrical power by the Calgary Power Co.: Camrose 5,960 k.w. hrs., Edmonton 834,000 k.w. hrs., Gleichen 950 k.w. hrs., Lethbridge 751,586 k.w. hrs., and Taber 14,700 k.w. hrs.

The mines in the Crowsnest area purchased 12,180,134 k.w. hrs. from the East Kootenay Power Co.

The City of Medicine Hat supplied 40,800 k.w. hrs. to the mines in the Redcliff area.

There were 10,084 men employed at the mines during the month of December, 1933, being 212 less than in December, 1932.

The use of steel girders to replace timber is increasing, particularly in mines in the Crowsnest area, where this type of support is being used on main entries and airways.

ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1932:

Calendar Year	Short tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,601
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,933,660	18,205,205
1920	6,907,765	30,186,933
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
Total.....	130,877,748	\$422,900,885

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. For 1919 to 1932, the mine output figures are given.

THE MINES BRANCH

ANNUAL CONSUMPTION OF COAL IN THE DOMINION OF CANADA, 1902 TO 1932

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1932:

Year	Canadian*			Imported Coal Entered for Consumption					Total Short Tons	Per Capita
	Short tons		%	From U.S.A.		From Gt. Britain				
	Short tons			Short tons		Short tons				
	Short tons			Short tons		Short tons				
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9	10,110,972	1,848		
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2,212		
1904	6,697,183	47.9	7,238,869	65,687	7,297,482	52.1	13,894,665	2,412		
1905	7,032,661	49.4	7,238,738	68,500	7,215,446	50.6	14,249,107	2,341		
1906	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2,481		
1907	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2,947		
1908	9,156,478	47.3	10,203,335	97,514	10,195,424	52.7	19,351,902	2,820		
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2,682		
1910	10,532,103	50.2	10,545,451	51,541	10,437,123	49.8	20,970,226	2,960		
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	49.5	24,247,698	3,365		
1912	12,385,696	46.0	14,557,124	38,668	14,549,104	54.0	26,934,800	3,657		
1913	13,450,158	42.6	18,145,769	37,825	18,132,387	57.4	31,582,545	4,196		
1914	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3,490		
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	29,906,692	3,041		
1916	12,848,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3,717		
1917	12,313,603	37.2	20,848,009	9,451	20,810,182	62.8	33,123,735	4,049		
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	34,771,832	4,175		
1919	11,611,188	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3,402		
1920	14,025,566	42.9	18,752,981	.....	18,668,741	57.1	32,694,307	3,788	
1921	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	30,974,121	3,524		
1922	13,044,352	50.2	12,355,555	765,980	12,962,189	49.8	26,006,541	2,916		
1923	15,070,962	41.8	20,417,239	572,570	20,567,971	58.2	36,038,933	4,000		
1924	12,529,358	42.8	16,405,344	317,112	16,714,143	57.2	29,243,501	3,199		
1925	12,125,290	42.6	15,744,957	604,117	16,331,971	57.4	28,457,261	3,062		
1926	15,086,296	47.7	16,204,405	287,299	16,565,555	52.3	31,651,851	3,349		
1927	15,944,983	46.7	17,266,434	907,220	18,177,303	53.3	34,122,286	3,541		
1928	16,487,807	50.0	15,830,688	682,755	16,515,582	52.0	33,003,389	3,356		
1929	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0	34,111,593	3,402		
1930	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7	32,464,710	3,181		
1931	11,882,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2,362		
1932	11,212,701	49.0	9,889,866	1,927,716	11,654,492	51.0	22,867,193	2,177		

*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees, and the coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

Coke imported into Canada during the years 1931, 1932 and 1933 through ports in the Provinces, compiled from information received from the Dominion Bureau of Statistics:

Province	1931	1932	1933
Prince Edward Island	32	.....	.....
Nova Scotia	4,363	8,275	6,851
New Brunswick	825	150	121
Quebec	18,809	30,257	12,314
Central Ontario	621,123	*571,625	562,755
Head of Lakes	73,859	34,279	53,063
Manitoba	12,228	6,260	8,125
Saskatchewan .....	.....	.....	.....
Alberta .....	.....	.....	.....
British Columbia	2,095	1,553	846
Total.....	733,334	*652,399	644,075

Imports of Coke into Canada, by Countries, 1931, 1932, 1933

Countries	1931	1932	1933
United States	727,646	*612,922	624,293
Great Britain	5,462	39,422	19,668
Germany	226	55	114
Total.....	733,334	*652,399	644,075

*Correction of figures previously given.

Coal in tons, entered for consumption for each year since 1919 through ports in the Provinces of Manitoba, Saskatchewan, Ontario, British Columbia and Alberta.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,557	1,391,709	12,386,903	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,324	1,887	1,515	32,392	13,802,242
1927	11,572,678	221,694	90,564	1,273,691	13,188,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,559,408	194,718	103,594	1,431,228	12,338,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,252,027	143,889	100,141	1,531,656	13,067,713	38,801	2,477	1,337	18,526(a)	14,585,275(b)
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886(c)	13,345,308(d)
1931	8,533,736	86,810	65,738	699,279	9,315,563	7,041	1,535	912	2,308(e)	10,347,280(f)
1932	6,867,307	62,019	48,915	691,831	7,670,072	12,298	1,459	830	3,582(n)	8,532,318(k)
1933	7,057,634	74,334	30,108	482,206	7,644,882	13,213	1,327	998	26,077(q)	8,446,904(o)

ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	.....	66	136	4,972,283
1920	2,943,134	69,206	2,548	226,476	3,221,464	17,509	206	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,886,924	21,507	12	36,018	1,644,461	14,715	231	.....	1,261	2,693,957
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	.....	1,74	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,232	1,720	.....	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,049	34,396	702	.....	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	.....	5,202	4,243,932
1927	2,123,515	.....	51	79,293	2,202,849	15,835	484	.....	3,812	4,063,319
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	.....	2,241	3,773,333
1929	2,246,063	352	303	52,369	2,299,087	9,130	365	.....	597	4,018,917(g)
1930	2,080,457	.....	224	45,241	2,125,922	8,323	367	.....	33	4,256,090(h)
1931	1,615,643	.....	.....	18,302	1,633,945	3,695	.....	.....	702	3,178,141(j)
1932	1,250,755	.....	.....	12,677	1,263,435	3,800	.....	.....	3	3,138,157(m)
1933	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	8,657	3,035,613(p)

- (a) Includes 11 tons imported in February, 50 tons in July, and 6 tons in August into the Yukon Territory.
- (b) Includes 115,368 tons of bituminous coal from Great Britain, also 76 tons of bituminous coal from Newfoundland.
During 1929 there were 1,896 tons of lignite coal imported from the United States into Manitoba, 41 tons were imported from the United States into Canada from Saskatchewan, also 12,171 tons from the United States into British Columbia, making a total of 14,108 tons of lignite coal imported into Canada from the United States.
- (c) Includes imports into the Yukon Territory of 2 tons in April and 5 tons in June.
- (d) Consists of 13,199,076 tons imported from the United States, 146,199 tons imported from Great Britain and 83 tons imported from Newfoundland.
- (e) Includes imports into the Yukon Territory of 6 tons in March and 4 tons in July.
- (f) Consists of 10,224,982 tons imported from the United States, 122,298 tons imported from Great Britain.
- (g) Includes 728,458 tons of anthracite imported from Great Britain, 117,404 tons from Russia and 112 tons from Japan.
- (h) Consists of 2,955,954 tons imported from the United States, 996,127 tons imported from Great Britain, 11,480 tons imported from Germany, 291,407 tons imported from Russia, and 1,122 tons imported from French East Indies.
- (j) Consists of 2,236,423 tons imported from the United States, 876,364 tons imported from Great Britain, 60,762 tons imported from Germany, and 4,592 tons imported from French East Indies.
- (k) Consists of 8,170,248 tons imported from the United States, 362,068 tons imported from Great Britain, and 2 tons imported from Newfoundland.
- (m) Consists of 1,685,532 tons imported from the United States, 1,399,086 tons from Great Britain, 52,189 tons imported from Germany, 650 tons from Belgium, and 700 tons imported from the French East Indies.
- (n) Includes 4 tons imported in June, into the Yukon Territory.
- (o) Consists of 8,108,699 tons imported from the United States, 338,061 tons imported from Great Britain and 144 tons imported from Germany.
- (p) Consists of 1,429,829 tons imported from the United States, 1,605,776 tons imported from Great Britain, 6 tons imported from China and 2 tons imported from Alaska.
- (q) Includes imports into the Yukon Territory of 5 tons in May and 2 tons in October.

Tons of Coal entered for consumption for each month during the year 1933, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta and British Columbia, compiled from information received from the Dominion Bureau of Statistics:

BITUMINOUS COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Alta., B.C., and Yukon	Total Canada
January	317,122	.....	1,690	.....	318,812	1,585	.....	.....	7,423	.....	9,008	345,530
February	254,828	.....	1,051	.....	255,879	1,558	33	73	4,205	.....	3,869	279,447
March	338,286	.....	2,291	.....	340,577	1,380	227	121	1,941	.....	3,669	362,055
April	258,352	.....	.....	.....	260,035	709	62	.....	538	.....	1,309	281,734
May	563,272	.....	3,435	26,802	596,009	705	230	64	1,669	5	2,673	666,777
June	678,170	.....	1,112	41,744	721,626	762	189	197	687	.....	1,845	831,992
July	751,701	.....	2,716	25,826	780,243	645	235	200	116	.....	1,196	898,070
August	752,031	47,472	3,185	85,740	888,428	1,040	266	175	210	.....	1,691	981,833
September	745,861	27,460	3,427	112,335	1,013,845	1,585	41	70	128	.....	1,824	1,092,027
October	745,861	2	4,121	59,051	809,035	1,060	34	67	216	2	1,379	888,721
November	840,644	.....	3,667	102,187	946,498	1,191	.....	31	7,143	.....	8,365	1,066,406
December	684,244	.....	1,730	27,921	713,895	993	.....	.....	1,794	.....	2,787	752,312
Total.....	7,057,634	74,934	30,108	482,206	7,644,882	13,213	1,327	998	26,070	7	41,615	8,446,904 (a)

(a) Consists of 8,108,699 tons imported from the United States, 338,061 tons imported from Great Britain, and 144 tons from Germany.

ANTHRACITE COAL

Month	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	Total Alta., B.C., and Yukon	Total Canada
January	97,382	.....	.....	.....	97,382	553	.....	.....	1	.....	554	140,288
February	108,571	.....	.....	.....	108,571	423	.....	75	.....	.....	498	176,334
March	91,464	.....	.....	.....	91,464	333	.....	.....	.....	.....	333	135,827
April	51,269	.....	.....	.....	51,269	257	.....	.....	646	.....	903	150,700
May	23,959	.....	.....	.....	33,959	392	32	.....	6	.....	430	272,058
June	66,181	.....	.....	.....	66,181	340	.....	.....	.....	.....	340	289,376
July	135,729	.....	.....	.....	135,729	477	.....	.....	.....	.....	477	340,885
August	110,156	.....	.....	5,850	116,006	629	.....	.....	.....	.....	629	317,896
September	163,032	.....	.....	2,892	165,924	524	.....	.....	2,801	.....	3,325	379,999
October	89,860	.....	6	.....	89,866	431	.....	.....	182	.....	613	321,879
November	98,911	.....	2	.....	98,913	657	25	.....	21	.....	703	357,555
December	82,527	.....	.....	.....	82,527	653	.....	.....	.....	.....	653	154,116
Total.....	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	.....	9,458	3,035,613 (b)

(b) Consists of 1,429,829 tons imported from the United States, 1,605,776 tons imported from Great Britain, 6 tons imported from China and 2 tons imported from Alaska.

LIGNITE COAL

January .....	.....	.....	.....	.....	.....	27	.....	.....	.....	361	.....	.....	388
February .....	.....	.....	.....	.....	.....	39	.....	.....	.....	452	.....	.....	491
March .....	.....	.....	.....	.....	.....	26	.....	.....	.....	.....	.....	26	26
April .....	.....	.....	.....	.....	.....	11	.....	.....	.....	.....	.....	11	11
May .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45	.....	45	45
July .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	54	.....	54	54
August .....	.....	.....	.....	.....	.....	.....	21	.....	.....	.....	.....	21	21
September .....	.....	.....	.....	.....	.....	157	.....	.....	.....	78	.....	235	235
October .....	.....	.....	.....	.....	.....	.....	148	.....	.....	143	.....	291	291
November .....	.....	.....	.....	.....	.....	.....	143	.....	.....	499	.....	642	642
December .....	.....	.....	.....	.....	.....	32	5	.....	.....	466	.....	503	503
Total.....	.....	.....	.....	.....	.....	292	317	.....	.....	2,098	.....	2,707	2,707

TOTAL IMPORTATIONS

Bituminous	7,057,634	74,934	30,108	482,206	7,644,882	13,213	1,327	998	26,070	7	41,615	8,446,904
Anthracite	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	.....	9,458	3,035,613
Lignite .....	.....	.....	.....	.....	.....	292	317	.....	2,098	.....	2,707	2,707
Total.....	8,186,675	74,934	30,116	490,948	8,782,673	19,174	1,701	1,073	31,825	7	53,780	11,485,224

MINERAL PRODUCTION OF ALBERTA, 1932 AND 1933

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada.

	1932		1933 (a)	
	Quantity	Value	Quantity	Value
*Gold, fine ounces	83	\$ 1,716	324	\$ 6,698
**Exchange equalization ..		233		2,569
Silver, fine ounces	9	3	32	12
Bituminous sands, tons....	343	1,372	466	1,662
Coal, tons	4,870,648	13,526,309	4,716,537	12,300,242
Natural gas, M. cu. ft.....	15,370,968	3,853,794	14,923,597	3,505,808
Petroleum, Brls	906,751	2,751,541	999,415	2,789,361
Cement, Brls.	193,571	399,922	149,206	299,530
Clay products		329,584		198,373
Lime, tons	6,642	56,577	6,983	60,037
Sand and gravel, tons	734,067	250,025	310,262	96,199
Stone, tons	1,428	2,985	2,172	24,317
Total.....		\$21,174,061		\$19,284,808

(a) Subject to revision.

*Gold valued at standard rate of \$20.671834 per ounce.

**Difference between the standard rate and the average value of gold during the year.

Particulars with reference to the coal mining industry in the Province of Alberta during the year ending December 31, 1933:

SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permit	2,730
Number of short tons of Coal produced	4,714,784
Number of short tons of Briquettes produced	16,104
Number of short tons of Coke produced	49,279
Number of short tons of Shale produced	3,234
Number of Coal-mines in operation during the year.....	338
Number of Shale Pits in operation during the year	1
Number of mines opened during the year	40
Number of mines re-opened during the year	11
Number of mines closed during the year	30
Number of mines abandoned during the year	28
Number of mines in operation at December 31, 1933	295
185 mines or 54.70% of the total operating produced 1.43% of the output.	
72 mines or 21.33% of the total operating produced 3.24% of the output.	
12 mines or 3.55% of the total operating produced 1.55% of the output.	
35 mines or 10.36% of the total operating produced 18.01% of the output.	
20 mines or 5.92% of the total operating produced 28.00% of the output.	
8 mines or 2.37% of the total operating produced 23.22% of the output.	
4 mines or 1.18% of the total operating produced 13.79% of the output.	
2 mines or .59% of the total operating produced 10.76% of the output.	

Average number of persons employed below ground	5,937
Average number of persons employed above ground	2,105
Number of separate accidents causing loss of life	6
Number of deaths caused by accidents above ground	3
Number of deaths caused by accidents below ground.....	3
Number of serious accidents above ground	7
Number of serious accidents below ground	53
Number of slight accidents above ground	19
Number of slight accidents below ground	90
Total purchased electrical power (kilowatt hours)	17,611,959
Number of persons prosecuted under The Coal-mines Regula- tion Act	7
Number of Provisional Certificates (overman) issued in 1933	169
Number of Certificates of Competency as Coal-miners issued in 1933	360
Number of Third Class Certificates issued in 1933	44
Number of Second Class Certificates issued in 1933	7
Number of First Class Certificates issued in 1933	3
Number of Mine Surveyors' Certificates issued in 1933.....	2
Total number of Third Class Certificates issued to December 31, 1933	1,234
Total number of Second Class Certificates issued to December 31, 1933	418
Total number of First Class Certificates issued to December 31, 1933	236
Total number of Mine Surveyors' Certificates issued to Decem- ber 31, 1933	186
Total number of Interchange First Class Certificates issued to December 31, 1933	5
Total number of Certificates of Competency as Coal-miners issued to December 31, 1933	13,360

In the following tables the short ton of 2,000 lbs. is used in all cases:

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons Alberta
1901	346,649	.....
1902	510,674	.....
1903	622,939	.....
1904	782,931	.....
1905	811,228
1906	1,385,000
1907	1,834,745
1908	1,845,000
1909	2,174,329
1910	3,036,757
1911	1,694,564
1912	3,446,349
1913	4,306,346
1914	3,821,739
1915	3,434,891
1916	4,638,604
1917	4,863,414
1918	6,148,620
1919	5,022,412
1920	6,908,923
1921	5,937,195
1922	5,976,432
1923	6,866,923
1924	5,203,713
1925	5,883,394
1926	6,508,908
1927	6,936,780
1928	7,334,179
1929	7,147,250
1930	5,755,911
1931	4,564,290
1932	4,870,030
1933	4,714,484

THE MINES BRANCH

PARTICULARS OF WORK DONE IN SHALE MINES IN THE
PROVINCE DURING 1933

Output of shale in tons, used for making bricks	3,234	-
Average number of days worked each month	25	
Average number of men employed each month	8	
Total number of shifts worked	2,065	
Explosives used (lbs.)—40% Dynamite	575	-
Black Powder .....	.....
Number of shots fired—fuse	276	
Total number of bricks made	1,221,060	
Total number of bricks lifted from stock	579,332	
Total number of bricks put to stock	15,000	
Bricks sold for use in:		
Alberta	1,363,416	
British Columbia	451,960	
Saskatchewan	92,500	
Manitoba	127,500	
Ontario	13,000	
United States .....	.....
Total.....	2,048,376	

Total hollow tile made, in tons .....	.....
Total hollow tile put to stock, in tons .....	.....
Hollow tile, in tons, sold for use in:		
Alberta	595.0	
Saskatchewan .....	.....
Manitoba	1.8	
British Columbia .....	.2	
Total.....	597.0	

PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL
UNDER DOMESTIC PERMIT

Total tonnage	2,730	
Average number of days worked each month	7.31	
Average number of men employed each month	59	
Total number of shifts worked	2,106	
Total number of permits issued	130	

The above coal was stripped for domestic use only and not for sale.

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1933 INCLUSIVE

ANNUAL REPORT, 1933

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Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke production	Briquettes	Coke
*1901	.....	331,907	.....	.....	14,742	.....	.....	.....
*1902	.....	494,087	.....	.....	16,587	.....	.....	.....
*1903	.....	617,754	.....	.....	5,185	.....	.....	.....
*1904	.....	759,568	.....	.....	23,363	.....	.....	.....
*1905	.....	972,686	.....	.....	43,653	.....	.....	46,640
1906	602,780	.....	.....	546,623	235,597	71,292	.....	69,844
1907	639,335	.....	.....	939,295	256,115	103,930	.....	73,782
1908	584,334	.....	.....	1,001,571	249,095	112,887	49,535	75,657
1909	763,673	.....	.....	1,197,399	213,257	138,397	36,281	89,755
1910	878,011	.....	.....	1,896,901	261,756	181,104	108,936	121,578
1911	904,700	.....	.....	649,745	80,119	196,249	48,200	35,984
1912	1,341,389	.....	.....	1,926,371	178,589	61,591	90,000	105,684
1913	1,763,225	.....	.....	2,374,401	168,720	170,818	130,861	65,167
1914	1,697,401	.....	.....	1,953,367	170,971	44,249	109,082	29,058
1915	1,682,922	.....	.....	1,626,237	125,732	38,878	83,180	23,826
1916	2,172,801	.....	.....	2,335,259	140,544	67,105	107,959	41,950
1917	2,537,829	.....	.....	2,206,868	118,717	51,905	93,818	31,630
1918	3,035,061	.....	.....	2,982,334	131,225	53,462	100,470	32,858
1919	2,611,009	.....	.....	2,325,787	85,616	.....	70,033	.....
1920	3,359,309	.....	.....	3,419,031	130,594	.....	101,693	.....
1921	2,943,141	.....	.....	2,897,330	96,674	.....	62,466	.....
1922	3,086,669	.....	.....	2,914,423	40,417	.....	33,663	.....
1923	3,161,741	.....	.....	3,245,313	107	.....	39,638	.....
1924	3,096,660	.....	635,073	1,521,288	.....	.....	791	.....
1925	3,156,359	.....	459,869	2,145,200	.....	.....	11,381	.....
1926	3,160,029	.....	581,835	2,858,508	.....	287	20,649	173
1927	3,357,171	.....	490,371	2,984,419	.....	.....	24,768	.....
1928	3,378,200	.....	595,190	3,215,431	.....	.....	28,167	.....
1929	3,385,749	.....	668,108	3,093,393	.....	.....	24,111	.....
1930	2,874,090	.....	603,331	2,278,490	.....	.....	15,102	.....
1931	2,246,544	.....	471,389	1,846,357	.....	.....	13,582	2,183
1932	2,576,831	.....	559,479	1,733,790	.....	4,591	14,935	49,279
1933	2,434,047	.....	554,141	1,726,596	.....	75,275	.....	.....

*Includes outputs from Alberta and Saskatchewan. Previous to 1922 Sub-Bituminous was included in Bituminous Coal.

During the year 1909 a strike affecting all the larger mines in the Province lasted for a period of three months.

During the year 1911 a strike affecting all the larger mines in the Province lasted for a period of eight months.

During the year 1917 a strike affecting all the larger mines in the Province lasted for a period of three months.

During the year 1919 a strike affecting all the larger mines in the Province lasted for a period of three months.

During the year 1922 a strike affecting all the larger mines in the Province lasted for a period of five months.

During the year 1924 a strike affecting all the larger mines in the Province lasted for a period of six and a half months.

Total output of COAL, COKE and BRIQUETTES disposed of during 1933:

	Sold for Consumption in					Sold to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including waste put to stock and or waste.
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	United States									
Domestic	1,042,567	65,316	956,636	242,151	18,382	14,332	.....	73,429	936	.....	.....	18,762	21,468	17,047	2,885	2,434,047
Sub-Bituminous ..	34,981	33,010	21,733	66,839	19,166	32	38	30,643	4,258	.....	.....	2,103	93,863	2,269	.....	554,141
Bituminous	45,809	22,585	74,541	140,691	1,889	.....	4,084	76,445	800	14,935	75,275	17,139	21,848	18,379	878	1,726,596
Total.....	*1,123,357	120,911	1,052,910	449,681	39,437	32	18,449	180,517	5,994	14,935	75,275	38,004	136,679	37,695	3,763	*4,714,784
Briquettes	2,256	3,646	1,563	3,610	649	.....	4,800	.....	.....	.....	180	.....	.....	.....	.....	16,104
Coke	641	48,284	69	36	.....	.....	.....	.....	.....	.....	.....	343	.....	313	.....	49,279

Total output of COAL and BRIQUETTES disposed of during 1932:

Domestic	1,065,509	84,191	1,008,702	278,799	14,495	.....	21,308	77,148	1,126	.....	.....	20,339	24,106	17,873	1,019	2,576,831
Sub-Bituminous ..	26,190	38,292	33,609	62,955	5,709	135	204	28,278	4,776	.....	.....	1,775	92,715	1,490	.....	559,479
Bituminous	42,612	13,705	55,071	155,252	379	.....	5,854	74,171	1,121	12,629	4,591	22,061	13,707	20,363	.....	1,733,720
Total	†1,134,311	136,188	1,097,382	497,006	20,583	135	27,366	179,597	7,023	12,629	4,591	44,115	130,528	40,326	1,019	†4,870,030
Briquettes	1,925	4,534	793	2,733	75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13,582
Coke	360	1,261	130	.....	.....	.....	.....	45	.....	.....	.....	349	167	.....	.....	2,183

*Coal extracted by farmers under Domestic Permit not included in 1933 tonnage.

†Coal extracted by farmers under Domestic Permit included in 1932 tonnage.

How the total output of DOMESTIC Coal from the Province was disposed of by areas during 1933:

Areas	Sold for Consumption in					Used under Colliery Boilers	Used by Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste.
	Alberta	British Columbia	Saskat- chewan	Manitoba	Ontario	United States						
Ardley	15,470	.....	2,489	164	.....	.....	.....	1,355	.....	139	.....	20,099
Big Valley	4,119	.....	.....	.....	.....	.....	.....	.....	288	.....	.....	4,407
Brooks	6,589	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,614
Camrose	28,343	.....	8,107	269	.....	.....	.....	130	1,149	843	316	37,454
Carbon	67,048	1,053	15,914	13,543	108	.....	.....	345	3,215	210	938	100,549
Castor	32,870	.....	.....	.....	.....	.....	.....	.....	1,726	.....	.....	34,694
Champion	19,789	.....	.....	.....	.....	.....	.....	50	702	.....	.....	20,541
Drumheller	197,424	35,042	665,508	177,541	16,214	3,345	1,095,074	16,779	595	1,279	1,399	1,112,204
Edmonton	440,831	132	22,552	1,913	76	.....	465,504	8,918	.....	1,134	39	477,791
Gleichen	4,662	.....	.....	.....	.....	.....	4,662	.....	.....	.....	.....	4,662
Halcourt	2,826	.....	.....	.....	.....	.....	2,826	15	48	16	.....	2,873
Lethbridge	115,293	22,990	132,129	16,008	1,174	9,919	297,513	35,387	9,352	11,706	1	335,166
Magrath	1,932	.....	.....	.....	.....	.....	1,932	81	.....	.....	.....	2,013
Milk River	5,155	.....	.....	.....	.....	.....	5,155	.....	140	.....	.....	5,295
Pakowki	2,288	.....	.....	.....	.....	.....	2,288	35	314	35	.....	2,602
Pembina	30,073	5,620	48,166	5,332	810	.....	90,001	6,739	4,080	1,477	.....	101,684
Redcliff	16,605	278	14,089	753	.....	.....	31,725	258	.....	.....	.....	32,267
Rochester	1,044	.....	.....	.....	.....	.....	1,044	542	.....	.....	.....	1,348
Sheerness	19,966	33	4,117	232	.....	.....	24,348	.....	1,409	.....	10	27,290
Steeleville	50	.....	.....	.....	.....	.....	50	.....	.....	.....	.....	100
Taber	10,923	168	1,746	711	.....	1,068	14,616	.....	1,587	208	182	15,813
Tofield	18,908	.....	41,819	25,685	.....	.....	86,412	1,800	.....	.....	.....	88,212
Wetaskiwin	160	.....	.....	.....	.....	.....	160	.....	10	.....	.....	170
Whitecourt	44	.....	.....	.....	.....	.....	44	.....	.....	.....	.....	44
No Area	155	.....	.....	.....	.....	.....	155	.....	.....	.....	.....	155
Total	1,042,567	65,316	956,636	242,151	18,382	14,332	2,339,384	936	18,762	17,047	2,885	2,434,047

How the total output of SUB-BITUMINOUS Coal from the Province was disposed during 1933:

Areas	SOLD FOR CONSUMPTION IN						Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec											United States
Coalspur	21,129	27,508	8,583	48,622	14,407	.....	33	308,280	22,102	4,258	.....	762	93,206	1,123	.....	427,485
Pekisko	1,478	.....	.....	.....	.....	.....	.....	1,478	.....	.....	.....	83	90	78	.....	1,573
Pincher	1,696	.....	.....	.....	.....	.....	.....	1,696	30	.....	.....	190	67	.....	.....	1,983
Prairie Creek	3,964	4,929	1,419	8,318	357	.....	.....	81,238	3,527	.....	.....	1,068	.....	1,068	.....	84,765
Saunders	6,714	573	11,731	9,899	4,402	32	.....	33,351	4,984	.....	.....	.....	.....	.....	.....	38,335
Total.....	34,981	33,010	21,733	66,839	19,166	32	33	426,043	30,643	4,258	.....	2,103	93,363	2,269	.....	554,141

BITUMINOUS

Cascade	3,319	313	766	4,961	105	83,830	93,294	16,676	290	14,935	5,022	80	5,280	124,607
Crowsnest	29,298	18,794	61,582	57,730	1,500	.....	4,084	541,954	755,516	24,829	510	10,339	21,768	11,321	468	876,448
Mountain Park	9,664	3,478	3,377	77,763	284	.....	.....	462,109	556,675	27,755	.....	.....	.....	.....	.....	584,430
Nordegg	3,528	.....	5,216	237	.....	.....	.....	124,945	133,926	7,185	.....	.....	.....	1,778	.....	141,111
Total.....	45,809	22,585	74,541	140,691	1,889	4,084	1,249,812	1,539,411	76,445	800	14,935	75,275	17,139	21,848	18,379	1,726,596

How the total output of COAL from the Province was disposed of by months during 1933:

Months		SOLD FOR CONSUMPTION IN							Total Sales	Used under Boilers	Used by R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including waste put to stock and lifted from stock or waste
		Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	United States										
January	141,047	12,555	123,464	60,449	1,999	.....	2,561	99,995	442,070	18,460	611	1,743	3,999	3,292	10,958	3,074	224	477,835
February	130,656	12,790	134,921	60,676	1,878	32	4,280	112,198	457,431	17,502	533	1,104	5,457	3,083	15,771	2,535	.....	498,346
March	87,383	5,919	57,194	33,830	628	.....	407	125,073	310,434	16,381	475	753	7,362	3,137	14,842	2,877	1,048	349,459
April	48,100	2,089	34,625	11,513	97	.....	282	118,746	215,452	11,450	427	453	7,002	3,210	11,147	2,309	1,075	245,757
May	31,620	5,749	22,074	6,296	116	.....	259	124,339	190,453	11,455	404	661	7,221	794	9,218	2,961	197	217,048
June	25,176	2,551	19,915	11,776	261	.....	.....	141,280	200,959	11,139	315	573	6,688	904	3,930	3,838	137	220,533
July	24,917	8,372	20,964	11,509	1,176	.....	97	120,549	182,884	9,736	204	184	5,928	647	2,046	4,670	82	196,877
August	43,343	6,949	49,747	14,909	2,309	.....	575	144,929	262,761	12,981	353	1,633	5,887	3,960	5,812	1,652	424	291,311
September	106,448	14,050	121,947	36,539	4,855	.....	2,101	110,487	396,407	14,973	538	1,475	5,945	4,943	15,345	3,112	73	436,441
October	168,733	16,534	185,909	66,370	9,867	.....	2,478	123,780	573,671	17,869	608	2,190	5,899	5,908	16,203	2,023	87	620,238
November	127,438	17,600	124,911	64,859	9,839	.....	2,618	142,602	489,867	18,270	712	1,658	6,596	4,046	15,407	2,623	260	533,673
December	188,496	20,753	157,239	70,955	6,432	.....	2,791	135,783	582,449	20,301	814	2,508	7,291	4,080	16,000	6,021	156	627,266
Total.....	1,123,357	120,911	1,052,910	449,681	39,437	32	18,449	1,500,061	4,304,838	180,517	5,994	14,935	75,275	38,004	136,679	37,695	3,763	* 4,714,784
Percentage of Sales	26.09	2.80	24.46	10.44	.92	.01	.43	34.85										

*Coal extracted by farmers under Domestic Permits not included.

How the total output of DOMESTIC Coal was disposed of by months during 1933:

Months	SOLD FOR CONSUMPTION IN						Used under Colliery Boilers	Used by Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	United States							
January	130,075	7,302	113,735	34,409	1,407	2,083	289,011	107	931	2,784	1,241	224	299,386
February	122,260	8,265	125,525	35,305	1,167	3,441	295,963	41	2,125	2,753	987	.....	307,739
March	81,223	3,896	51,934	15,365	483	109	153,910	35	751	1,818	1,999	1,048	158,899
April	44,042	1,252	30,353	8,882	97	33	79,659	60	188	407	1,871	1,075	81,040
May	28,757	1,119	17,510	2,908	116	49	50,459	3,352	21	137	250	155	51,912
June	22,278	978	13,950	4,257	156	.....	41,619	27	282	247	934	.....	44,425
July	21,932	1,461	14,476	2,369	692	.....	40,930	33	137	171	1,376	62	42,921
August	39,080	4,056	42,981	5,269	629	319	92,334	39	584	545	1,197	90	97,212
September	99,977	9,029	110,913	19,746	2,125	1,700	243,490	106	3,064	3,072	469	.....	256,178
October	159,223	10,318	175,838	44,422	4,387	2,040	394,328	185	5,139	3,817	1,126	.....	410,807
November	116,470	7,795	115,425	35,045	3,770	2,137	280,702	137	2,003	2,601	1,961	192	291,515
December	177,250	9,845	145,996	39,174	3,353	2,361	377,979	175	3,321	3,003	1,734	39	392,013
Total.....	1,042,567	65,316	956,636	242,151	18,382	14,332	2,339,384	936	18,762	21,468	17,047	2,885	2,434,047
Percentage of total sales	44.57	2.79	40.89	10.35	.79	.61							

How the total output of SUB-BITUMINOUS Coal was disposed of by months during 1933:

Months	SOLD FOR CONSUMPTION IN						Sold to Railroad Companies	Total Sales	Used under Colliery Boilers	Used by Colliery R.R.	Put to Stock	Put to Waste	Lifted from Stock	Total output for year including put to stock and lifted from stock or waste
	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	United States							
January	4,451	4,717	2,878	6,487	559	.....	.....	36,699	3,085	439	320	5,682	306	45,919
February	3,027	4,096	2,395	6,071	676	.....	33	39,116	3,082	433	85	10,605	87	53,204
March	2,022	1,672	1,091	3,514	145	.....	33	21,830	2,838	375	110	10,865	80	45,938
April	1,178	803	58	351	.....	.....	.....	23,898	2,048	312	145	8,728	159	36,872
May	1,326	558	787	1,019	.....	.....	.....	26,064	2,195	313	155	7,031	376	35,382
June	1,863	400	1,364	1,63	105	.....	.....	13,315	1,926	213	116	1,761	344	16,987
July	1,099	1,239	1,562	1,549	415	.....	.....	12,847	1,668	120	93	342	176	14,894
August	1,553	1,528	1,116	2,590	1,346	.....	.....	24,606	2,156	239	358	8,724	93	30,990
September	2,787	3,377	2,976	7,019	2,546	.....	.....	48,183	2,612	367	236	11,047	277	62,168
October	5,348	4,378	3,732	9,014	5,033	.....	.....	52,663	2,866	391	201	10,945	225	66,841
November	5,916	4,145	1,558	14,951	5,648	.....	.....	58,026	3,121	507	57	11,310	141	72,880
December	4,351	6,097	2,276	14,111	2,693	.....	.....	56,796	3,076	549	327	11,323	5	72,066
Total	34,981	33,010	21,733	66,839	19,166	32	33	426,043	30,643	4,258	2,103	93,363	2,269	554,141
Percentage of Total Sales	8.21	7.75	5.10	15.69	4.49	.01	.01	58.74						

Amount of COAL sold during the years 1915 to 1933 inclusive for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	United States	To Railroads	Total
1915	2,129,130	54,860	695,898	64,816	.....	.....	25,047	.....	2,969,751
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	61,092	.....	4,119,205
1917	2,813,413	76,397	1,139,771	249,572	.....	.....	93,081	.....	4,372,534
1918	3,440,154	101,189	1,372,439	511,168	.....	.....	133,276	.....	5,558,855
1919	2,991,110	95,461	1,115,329	314,290	629	.....	121,212	.....	4,637,710
1920	1,647,202	128,850	1,310,146	600,362	13,911	30	152,610	2,516,355	6,371,266
1921	1,415,861	116,089	1,294,441	495,388	9,898	.....	133,823	2,023,204	5,488,704
1922	1,443,942	107,920	1,371,249	520,518	21,573	102	105,514	2,076,291	5,647,109
1923	1,382,788	108,326	1,223,454	553,649	52,334	.....	83,557	3,110,121	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,525	.....	39,142	1,613,574	4,914,949
1925	1,440,082	117,037	1,297,653	509,655	28,831	.....	40,507	2,139,716	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	24,559	221	48,216	2,706,440	6,170,032
1927	1,508,089	187,028	1,498,004	612,542	22,680	.....	45,160	2,759,765	6,653,168
1928	1,409,475	262,198	1,511,141	605,125	59,265	.....	44,265	3,054,239	6,938,708
1929	1,446,555	236,840	1,455,213	588,547	55,447	33	51,625	2,923,827	6,788,075
1930	1,334,382	227,385	1,221,542	541,537	29,784	32	44,291	2,120,237	5,419,190
1931	1,020,694	171,610	905,574	442,761	27,036	100	30,434	1,668,431	4,266,660
1932	1,134,311	136,188	1,097,382	497,006	20,583	135	27,366	1,619,921	4,532,892
1933	1,123,357	120,911	1,052,510	449,581	39,437	32	18,449	1,500,061	4,304,838

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

Coal produced by years from 1929 to 1933 inclusive:

DOMESTIC COAL FIELD

Areas	1929	1930	1931	1932	1933
Ardley	3,344	2,852	10,578	18,409	20,099
Big Valley	4,622	4,451	3,344	4,738	4,407
Brooks	6,633	7,992	4,905	6,622	6,614
Camrose	41,107	35,443	41,194	42,376	37,454
Carbon	111,308	91,027	85,824	88,837	100,549
Castor	31,583	24,759	24,162	37,043	34,694
Champion	10,498	12,441	12,113	17,296	20,541
Drumheller	1,574,766	1,433,350	1,070,543	1,245,474	1,112,204
Edmonton	476,702	417,310	370,252	454,293	477,791
Gleichen	2,844	3,055	3,235	5,260	4,662
Halcourt	475	436	2,080	2,275	2,873
Lethbridge	731,149	545,227	358,746	387,222	335,166
Magrath	910	969	1,749	1,808	2,013
Milk River	829	1,357	3,879	4,051	5,295
Pakan .....	.....	.....	.....	195	.....
Pakowki	1,735	2,092	1,615	2,717	2,602
Pembina	162,271	119,983	92,916	99,051	101,684
Redcliff	27,283	25,180	25,119	24,045	32,267
Rochester .....	.....	140	225	.....	1,348
Sexsmith .....	.....	.....	34	.....	.....
Sheerness	20,440	21,674	20,134	24,726	27,290
Steveville .....	.....	.....	.....	136	100
Taber	22,173	12,303	11,863	14,387	15,813
Tofield	155,059	111,932	101,792	95,637	88,212
Wetaskiwin .....	.....	105	188	180	170
Wainwright	18	.....	.....	.....	.....
Whitecourt .....	.....	12	54	.....	44
No Area .....	.....	.....	.....	53	155
Total.....	3,385,749	2,874,090	2,246,544	2,576,831	2,434,047

SUB-BITUMINOUS COAL FIELD

Coalspur	565,991	515,296	398,068	452,532	427,485
Pekisko	4,493	4,225	873	1,527	1,573
Pincher	1,823	2,318	2,413	2,729	1,983
Prairie Creek	6,713	15,425	35,523	66,784	84,765
Saunders	89,088	66,067	34,512	35,907	38,335
Total.....	668,108	603,331	471,389	559,479	554,141

BITUMINOUS COAL FIELD

Cascade	299,428	212,953	166,297	169,328	124,607
Crowsnest	1,552,966	1,133,914	951,970	714,352	876,448
Mountain Park	993,404	726,777	560,875	711,383	584,430
Nordegg	247,595	204,846	167,215	138,657	141,111
Total.....	3,093,393	2,278,490	1,846,357	1,733,720	1,726,596

Total output of DOMESTIC COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	2,521	2,090	963	253	23	53	49	1,065	2,275	3,820	3,465	3,522	20,099
Big Valley	849	593	363	106	87	100	19	24	164	888	698	516	4,407
Brooks	470	421	312	174	88	68	137	297	1,131	1,686	1,185	645	6,614
Carrose	4,546	3,525	3,059	1,508	1,149	874	512	1,175	3,418	6,299	4,223	7,166	37,454
Carbon	12,228	10,713	6,781	4,728	3,404	2,153	1,891	4,455	9,943	18,098	12,579	13,581	100,549
Castor	4,990	4,242	3,198	644	305	290	282	407	2,065	8,088	4,130	6,053	34,694
Champion	2,008	1,983	1,344	877	543	545	626	2,103	2,832	3,104	2,684	1,887	20,541
Drumheller	141,921	150,807	56,531	28,866	13,866	8,040	10,260	38,109	119,429	214,101	141,991	188,283	1,112,204
Edmonton	63,951	59,450	43,240	20,768	14,201	11,133	8,775	13,175	41,367	62,929	48,688	90,114	477,791
Gleichen	578	639	389	265	171	94	83	83	319	679	336	527	4,662
Halcourt	454	523	341	.....	5	47	35	.....	165	311	359	683	2,573
Lethbridge	33,570	41,741	15,001	8,855	6,356	9,493	6,709	21,209	45,558	58,491	40,542	47,941	335,166
Magrath	276	324	171	58	25	20	18	44	232	187	215	443	2,013
Milk River	86	389	393	131	108	163	163	194	810	1,098	1,044	408	5,295
Pakowki	219	196	147	51	27	27	23	114	480	650	392	276	2,602
Pembina	12,488	12,874	13,258	5,850	4,053	3,807	4,900	4,556	10,999	9,462	7,882	11,555	101,584
Redcliff	2,541	2,660	1,254	1,131	986	2,027	2,977	2,695	3,706	3,946	4,122	4,222	32,267
Rochester	241	246	208	88	.....	.....	.....	.....	114	180	321	321	1,348
Sheerness	2,671	2,849	1,750	907	576	433	628	985	3,541	5,647	3,813	3,490	27,290
Steeville	70	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100
Taber	1,777	2,175	345	515	209	246	234	478	2,015	2,844	2,962	1,813	15,313
Tofield	10,501	9,240	9,584	5,320	5,725	4,901	4,589	6,044	5,729	8,355	9,709	8,515	88,212
Wetaskiwin	31	29	23	.....	.....	.....	.....	.....	10	16	.....	61	170
Whitecourt .....	.....	.....	44	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
No. Area	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141	155
Total.....	299,386	307,739	158,899	81,040	51,912	44,425	42,921	97,212	256,178	410,807	291,515	392,013	2,434,047

Total output of SUB-BITUMINOUS COAL by areas during each month:

Coalspur	33,024	41,470	38,165	31,470	29,169	10,062	8,400	23,249	49,753	51,887	56,681	54,155	427,485
Pekisko	154	100	15	35	24	39	60	107	228	339	226	186	1,573
Pinchor	233	233	139	74	68	33	5	135	224	313	263	202	1,983
Prairie Creek	8,313	7,480	5,759	5,048	4,982	5,091	5,250	5,475	7,152	8,219	10,226	11,770	84,765
Saunders	4,134	3,921	1,800	245	1,139	1,762	1,179	2,024	4,811	6,083	5,484	5,733	38,835
Total.....	45,919	53,204	45,938	36,872	35,382	16,987	14,894	30,990	62,168	66,841	72,880	72,066	554,141

Total output of BITUMINOUS COAL by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	10,065	10,413	11,290	8,262	11,705	13,410	2,376	11,565	8,060	11,816	13,115	12,530	124,607
Crowsnest	58,779	71,876	72,825	64,909	74,152	89,164	81,916	95,348	54,498	66,325	75,999	70,157	876,448
Mountain Park	52,073	41,402	46,256	41,067	34,727	47,528	45,901	45,239	46,184	54,470	63,719	65,864	584,430
Nordegg	11,613	13,712	14,251	13,607	9,170	9,019	8,869	10,957	9,353	9,479	16,445	14,686	141,111
Total.....	132,530	137,403	144,622	127,845	129,754	159,121	139,062	163,109	118,095	142,590	169,278	163,187	1,726,596

Total output of COAL AND BRIQUETTES during the year:

Coal	477,835	498,346	349,459	245,757	217,048	220,533	196,877	291,311	436,441	620,238	533,673	627,266	4,714,784
Briquettes	1,887	1,196	813	490	715	618	195	1,756	1,584	2,660	1,787	2,703	16,704
Coke	2,488	3,430	4,583	4,789	4,852	4,376	4,090	3,384	3,311	3,365	4,239	4,772	49,279

Total Sales of SUB-BITUMINOUS COAL for consumption by Railroad Companies:

Coalspur	12,787	18,035	18,426	18,648	17,544	4,529	2,068	11,474	24,320	20,739	19,784	19,644	187,998
Prairie Creek	4,820	4,811	4,900	4,860	4,830	4,891	4,915	4,999	5,158	4,419	6,024	7,624	62,251
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	17,607	22,846	23,326	23,508	22,374	9,420	6,983	16,473	29,478	25,158	25,808	27,268	250,249

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

Cascade	5,875	6,330	8,909	5,878	9,096	11,275	1,108	7,784	4,851	7,071	8,594	7,059	83,830
Crowsnest	28,664	42,357	45,883	43,879	56,378	73,423	67,782	75,748	28,221	39,510	40,877	36,206	578,928
Mountain Park	37,556	28,377	34,589	33,382	28,450	38,990	36,818	36,626	37,464	43,904	52,763	53,190	462,109
Nordegg	10,293	12,288	12,366	12,099	8,041	8,172	8,158	8,298	10,473	8,137	14,560	12,060	124,945
Total.....	82,388	89,352	101,747	95,238	101,965	131,860	113,866	128,456	81,009	98,622	116,794	108,515	1,249,812
Grand Total.....	99,995	112,198	125,073	118,746	124,339	141,280	120,849	144,929	110,487	123,780	142,602	135,783	1,500,061

THE MINES BRANCH

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	1,232	993	386	19	23	53	39	89	195	1,574	1,239	1,626	7,468
Big Valley	449	405	222	60	60	85	15	20	130	704	641	363	3,244
Brooks	74	4	.....	.....	.....	.....	.....	.....	123	382	.....	85	968
Camrose	233	182	.....	.....	.....	31	.....	.....	85	182	204	507	1,424
Carbon	1,105	889	433	315	292	257	142	225	614	3,837	811	1,192	10,112
Castor	3,538	2,289	2,289	478	199	173	165	223	1,271	6,081	3,106	4,679	25,137
Champion	288	280	187	234	13	97	7	596	635	643	577	328	3,885
Drumheller	751	481	379	793	577	114	164	320	899	1,251	576	915	7,220
Edmonton	11,267	10,460	7,502	2,833	1,529	865	657	1,242	3,283	6,354	4,696	10,784	61,472
Gleichen	245	283	163	91	80	27	20	43	124	320	321	563	2,156
Halcourt	306	409	262	409	25	10	25	1087	1,306	1,398	1,376	1,419	14,898
Lethbridge	1,810	1,496	1,114	1,020	936	938	957	1,087	1,306	1,398	1,376	1,419	14,898
Magrath	190	.....	90	40	.....	.....	.....	.....	17	187	215	294	963
Milk River	433	347	355	106	103	74	141	133	548	958	906	350	4,454
Pakowki	130	156	51	25	2	12	16	76	420	380	177	122	1,567
Pembina	1,213	850	1,802	2,114	1,247	385	1,432	935	639	30	.....	447	10,595
Redcliff	1,463	1,791	589	615	368	1,966	872	641	1,183	537	547	588	11,160
Rochester .....	.....	160	.....	.....	.....	.....	.....	.....	.....	80	135	244	819
Sheerness	1,445	1,514	836	453	210	216	341	586	2,195	3,009	1,540	1,010	13,415
Staveville	10	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
Taber	156	155	149	52	37	27	23	67	174	272	250	.....	1,479
Tofield	1,193	809	521	265	132	99	67	325	344	695	966	1,118	6,534
Wetaskiwin .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Area	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141	155
Total.....	27,545	24,609	16,830	9,513	5,808	5,429	5,084	6,565	14,228	29,153	18,495	27,243	190,502

NUT COAL

Ardley	300	267	141	102	.....	.....	207	353	334	337	542	2,583
Big Valley	100	80	40	12	.....	5	.....	8	10	5	60	330
Brooks	39	15	.....	.....	.....	.....	.....	15	40	314	38	461
Carbon	1,555	1,643	1,577	769	593	400	583	1,189	1,702	1,504	2,850	14,623
Carbon	3,385	2,500	1,994	1,526	1,173	685	684	2,132	2,599	2,234	2,655	22,776
Castor	53	33	19	.....	.....	.....	.....	.....	24	18	119	266
Castor	219	224	188	129	100	116	144	437	499	412	289	38,928
Champion	4,180	3,279	3,014	1,950	1,246	726	781	3,414	4,972	3,694	4,866	38,928
Drumheller	16,375	15,371	13,488	7,643	4,986	3,937	3,405	12,238	17,308	13,327	23,496	185,712
Gleichen	24	31	22	9	6	3	4	13	23	22	15	179
Halcourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11
Halcourt	2,560	2,375	1,859	1,818	512	459	356	1,931	2,657	2,286	2,154	18,657
Lethbridge	31	50	33	31	5	5	5	17	.....	.....	.....	157
Pemba	461	611	351	93	94	31	31	316	281	231	450	2,982
Redcliff	29	15	.....	.....	.....	.....	.....	54	106	143	40	387
Rochester	19	26	39	.....	.....	.....	.....	.....	3	3	.....	87
Sheerness	1	9	.....	4	.....	.....	.....	16	3	70	65	174
Steveville .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taber	173	76	26	17	.....	14	8	.....	91	165	156	726
Tofield	173	115	56	.....	33	33	.....	151	.....	.....	.....	561
Whitecourt .....	.....	.....	37	.....	.....	.....	.....	.....	.....	.....	.....	37
Total.....	29,677	26,720	22,337	13,074	8,785	6,414	5,576	9,559	30,649	24,767	37,804	237,719

SLACK COAL

Ardley	18	38	71	1	.....	.....	.....	75	139	76	120	91	629
Brooks .....	.....	.....	33	3	.....	.....	.....	.....	.....	16	13	6	71
Carbon	183	207	148	95	71	65	.....	124	57	68	478	603	2,099
Carbon	706	840	717	689	348	233	225	423	527	1,064	966	1,763	8,501
Drumheller	6,120	6,639	3,390	2,929	1,353	1,054	1,555	2,802	6,200	10,649	6,159	11,190	60,040
Edmonton	13,116	12,405	9,958	4,787	3,343	2,628	2,334	3,425	7,940	12,408	9,414	18,358	100,666
Halcourt	15	8	.....	.....	.....	10	.....	.....	6	8	6	29	93
Halcourt	2,872	2,958	715	740	380	403	433	1,823	3,509	5,140	3,732	4,589	26,594
Lethbridge .....	.....	.....	.....	.....	.....	.....	.....	10	123	.....	.....	22	338
Magrath	324	360	342	79	38	.....	.....	.....	198	.....	787	326	2,642
Pemba	47	48	7	5	1	.....	.....	.....	402	864	515	1,889	1,889
Redcliff	5	.....	.....	.....	.....	.....	.....	.....	1	.....	2	7	45
Rochester	9	.....	30	.....	.....	.....	25	.....	.....	1	.....	9	44
Sheerness .....	.....	.....	.....	.....	.....	.....	.....	90	89	270	266	.....	1,134
Taber	58	157	5	40	110	49	.....	202	163	161	44	.....	1,064
Tofield .....	.....	.....	.....	123	206	206	165	.....	.....	.....	.....	.....	7
Whitecourt .....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	23,524	23,080	15,436	9,368	5,767	4,648	5,237	8,974	19,001	30,462	22,851	37,508	205,856

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	1,002	837	802	753	510	261	5	110	572	1,547	1,338	1,226	8,963
Pincher	89	65	45	17	23	10	2	17	63	66	85	45	527
Prairie Creek	208	210	41	.....	.....	.....	.....	70	115	401	554	226	1,825
Saunders	197	138	97	31	42	.....	138	75	460	375	238	197	1,988
Total.....	1,496	1,250	985	801	575	271	145	272	1,210	2,389	2,215	1,694	13,303

MINE-RUN COAL

Coalspur	191	137	149	87	114	148	25	29	85	85	80	217	1,347
Pekisko	134	97	59	55	25	44	60	107	228	299	199	171	1,478
Pincher	6	34	.....	.....	.....	.....	.....	20	35	50	20	55	220
Prairie Creek	191	122	68	59	16	6	66	2	141	140	23	146	971
Saunders	103	117	80	41	8	38	5	279	111	64	10	97	953
Total.....	625	507	356	233	163	236	156	437	600	638	332	686	4,969

NUT COAL

Coalspur	987	350	112	62	4	99	78	214	52	260	659	698	3,575
Pincher	139	97	80	45	24	20	3	12	75	110	96	58	759
Prairie Creek	138	143	35	.....	.....	.....	.....	.....	105	93	91	205	810
Saunders	206	259	405	30	308	942	354	375	135	292	304	163	3,773
Total.....	1,470	849	632	137	336	1,061	435	601	367	755	1,150	1,124	8,917

SLACK COAL

Coalspur	629	388	95	.....	7	247	292	363	243	595	1,554	2,177	661	7,344
Pincher	37	33	14	.....	.....	5	3	.....	.....	15	12	42	22	190
Prairie Creek	194	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	164	358
Total.....	860	421	109	7	252	295	363	243	610	1,566	2,219	847	7,892	

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

LUMP COAL

Cascade	212	237	129	117	39	20	25	119	99	173	192	205	1,558
Crowsnest	324	446	209	149	100	48	28	131	234	347	401	341	2,762
Mountain Park	162	144	123	100	60	42	30	33	81	103	126	189	1,193
Total.....	698	827	461	366	194	110	83	283	414	623	719	735	5,513

MINE-RUN COAL

Cascade	141	32	.....	45	.....	.....	.....	49	43	.....	51	88	449
Crowsnest	2,274	2,712	1,663	1,155	802	484	1,137	1,242	1,626	1,594	2,144	3,367	20,500
Mountain Park	414	396	307	260	140	95	84	98	303	371	375	587	3,430
Nordegg	241	261	200	128	77	59	36	87	133	605	317	1,141	3,285
Total.....	3,070	3,401	2,170	1,588	1,019	638	1,257	1,476	2,105	2,870	2,887	5,183	27,664

NUT COAL

Cascade	50	40	20	20	20	25	25	25	30	40	41	81	392
Crowsnest	62	68	58	21	1	16	62	15	99	119	172	142	835
Total.....	62	118	98	41	21	36	87	40	129	159	213	223	1,227

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade .....	.....	.....	.....	.....	.....	110	150	300	300	.....	.....	60	920
Crowsnest	1,640	154	298	151	164	140	67	134	266	296	1,230	661	5,201
Mountain Park	808	869	1,051	734	139	1	242	477	470	214	3	83	5,041
Nordegg	243	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	243
Total.....	2,691	1,023	1,349	885	303	251	459	911	1,036	510	1,233	754	11,405

Total amount of Domestic Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Carbon	67	81	34	.....	35	.....	39	111	133	33	108	104	745
Drumheller	2,932	3,096	725	440	358	98	248	1,024	3,394	3,623	2,800	3,565	22,303
Edmonton	35	32	.....	.....	32	.....	.....	.....	31	.....	.....	.....	98
Lethbridge	1,714	2,146	1,413	283	337	558	417	1,470	3,279	3,049	2,517	2,458	19,638
Pembina	413	472	165	.....	.....	.....	.....	.....	272	174	200	305	2,001
Redcliff .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	235	43	.....	278
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	101	134
Total.....	5,161	5,795	2,337	723	762	656	704	2,605	7,109	7,114	5,701	6,530	45,197

MINE-RUN COAL

Carbon	32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	32
Drumheller .....	.....	.....	.....	33	.....	.....	.....	.....	.....	39	.....	.....	72
Sheerness .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	.....	33
Total.....	32	.....	.....	33	.....	.....	.....	.....	.....	39	33	.....	137

NUT COAL

Carbon	1,250	72	36	135	292	33	628	1,253	615	2,315	1,525	1,952	276
Drumheller	1,469	34	625	259	.....	160	.....	.....	.....	.....	.....	.....	12,543
Edmonton	327	466	165	102	65	129	129	198	416	338	278	739	34
Lethbridge	532	429	699	.....	.....	.....	.....	.....	663	448	258	590	3,352
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34	3,619
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34
Total.....	2,109	2,436	1,559	496	357	322	757	1,451	1,694	3,101	2,061	3,315	19,658

SLACK COAL

Drumheller	34	226	64	324
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Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in British Columbia:
LUMP COAL

Coalspur	2,625	2,100	656	329	78	99	506	628	1,941	1,896	2,032	2,926	15,816
Prairie Creek	621	396	213	.....	.....	.....	.....	33	290	540	437	721	3,251
Saunders	33	45	.....	32	.....	.....	.....	.....	84	224	.....	61	479
Total.....	3,279	2,541	869	361	78	99	506	661	2,315	2,660	2,469	3,708	19,546

MINE-RUN COAL

Coalspur	30	.....	.....	31	31	71	95	63	65	.....	.....	.....	386
Prairie Creek .....	.....	46	32	.....	.....	.....	.....	.....	.....	32	.....	.....	110
Total.....	30	46	32	31	31	71	95	63	65	32	.....	.....	496

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	1,186	1,386	723	381	449	230	638	804	868	1,390	1,210	1,971	11,236
Prairie Creek	222	123	48	.....	.....	.....	.....	.....	129	205	466	375	1,568
Saunders .....	.....	.....	.....	30	.....	.....	.....	.....	.....	31	.....	83	94
Total.....	1,408	1,509	771	411	449	230	638	804	997	1,626	1,676	2,379	12,898

SLACK COAL

Coalspur	60	10	70
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Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

LUMP COAL

Cascade	46	.....	.....	.....	.....	.....	.....	.....	.....	.....	36	.....	82
Crowsnest	139	71	.....	.....	.....	.....	30	32	162	234	113	93	874
Total.....	185	71	.....	.....	.....	.....	30	32	162	234	149	93	956

MINE-RUN COAL

Cascade .....	.....	65	.....	34	.....	34	.....	34	.....	30	.....	34	231
Crowsnest	166	34	.....	.....	.....	.....	.....	33	181	82	68	1,191	1,755
Mountain Park	35	.....	33	.....	32	.....	.....	.....	.....	.....	.....	.....	100
Total.....	201	99	33	34	32	34	.....	67	181	112	68	1,225	2,086

NUT COAL

	47	116	44	91	34	78	410
Crowsnest												

SLACK COAL

Crowsnest	103	143	161	.....	775	.....	1,175	1,301	1,458	5,965	3,493	14,616
Mountain Park .....	.....	.....	113	.....	3,265	1,139	.....	.....	.....	.....	.....	4,517
Total.....	103	143	274	.....	4,040	1,139	642	1,301	1,458	5,965	3,493	19,133

Total amount of Domestic Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Ardley .....	.....	33	.....	.....	.....	.....	282	332	360	701	340	2,048
Camrose	234	166	134	.....	33	.....	34	395	665	406	416	2,549
Carbon	1,466	1,206	819	585	376	393	486	1,677	1,099	1,286	320	10,380
Castor .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Drumheller	55,484	61,165	17,737	4,618	2,424	1,587	15,186	52,953	92,191	57,939	78,825	442,625
Edmonton	1,345	474	161	149	1,048	803	766	755	1,207	1,486	976	9,363
Lethbridge	11,205	14,332	3,633	2,644	1,318	1,538	6,202	16,327	22,766	14,325	16,186	111,330
Pembina	33	32	1,455	.....	.....	.....	.....	1,011	496	633	259	2,919
Redcliff	168	95	.....	.....	.....	.....	.....	41	1,008	689	556	2,557
Sheerness .....	.....	.....	.....	.....	.....	.....	.....	.....	96	99	300	497
Taber	123	372	.....	.....	.....	.....	.....	359	227	232	66	1,379
Tofield	389	195	.....	.....	33	.....	65	429	2,049	1,032	483	5,722
Total.....	70,447	78,070	23,929	8,030	5,232	4,321	23,021	74,279	122,164	78,828	99,227	591,367

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Camrose .....	.....	.....	.....	.....	.....	32	.....	.....	66	100	.....	190	396
Carbon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	897	.....	.....	897
Drumheller	672	752	226	2,117	908	.....	.....	.....	897	3,390	968	4,320	14,473
Edmonton .....	.....	.....	234	621	101	.....	230	426	.....	.....	.....	.....	1,612
Pembina	1,317	1,924	2,303	2,869	2,226	3,153	3,314	3,283	3,982	502	927	131	25,031
Redcliff	762	637	637	451	596	.....	2,058	1,971	2,134	294	374	220	10,170
Sheerness	430	531	163	100	33	.....	.....	62	108	495	716	584	3,222
Tofield	4,233	4,376	3,912	3,050	3,139	3,067	2,765	3,702	2,409	1,901	2,229	2,133	33,966
Total.....	7,414	8,206	7,475	9,208	7,003	6,252	8,367	9,667	8,746	7,579	5,214	7,636	92,767

NUT COAL

Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	67	66	.....	198
Camrose	509	133	.....	34	.....	.....	.....	.....	34	873	171	.....	2,222
Carbon	305	280	896	180	236	77	57	95	453	413	776	420	3,688
Drumheller	13,045	15,378	7,703	5,578	2,616	1,353	1,133	3,787	12,052	16,867	11,487	14,633	105,738
Edmonton	1,234	1,454	959	600	315	443	286	609	1,012	1,198	1,026	1,537	10,738
Lethbridge	1,755	2,465	674	474	292	418	159	1,753	3,049	4,749	1,887	2,580	20,255
Pembina	2,060	2,600	2,318	.....	.....	.....	.....	.....	137	1,349	1,159	814	11,037
Redcliff	26	30	.....	.....	.....	.....	.....	33	.....	97	40	1,136	1,362
Sheerness .....	.....	.....	.....	.....	.....	.....	.....	.....	32	.....	.....	.....	130
Taber .....	.....	.....	.....	.....	.....	.....	.....	66	105	164	32	.....	367
Tofield	66	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	99
Total.....	19,055	22,473	12,100	6,866	3,459	2,291	1,635	6,377	17,838	25,777	16,644	21,319	155,834

SLACK COAL

Ardley	134	38	.....	712	313	.....	129	76	.....	387	.....	243
Camrose	336	187	260	.....	.....	.....	172	129	.....	141	78	2,940
Carbon	34	64	85	.....	.....	.....	48	339	.....	16,685	36	949
Drumheller	14,908	14,303	6,608	5,927	1,052	670	444	8,114	9,049	13,844	16,068	102,672
Edmonton .....	.....	.....	.....	52	103	.....	50	101	237	.....	71	839
Lethbridge	86	458	.....	.....	.....	.....	.....	.....	.....	.....	.....	544
Pembina	1,321	1,641	1,382	.....	.....	.....	.....	157	544	976	1,614	8,179
Sheerness .....	.....	90	180	.....	.....	.....	.....	.....	.....	.....	.....	270
Tofield .....	.....	.....	.....	.....	.....	.....	32	.....	.....	.....	.....	32
Total.....	16,819	16,776	8,430	6,249	1,816	1,086	655	3,916	10,050	18,318	14,739	116,668

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Coalspur	362	44	48	.....	512	1,126	1,286	604	566	481	220	257
Prairie Creek	131	64	.....	.....	.....	.....	.....	.....	108	95	32	5,506
Saunders	735	501	.....	.....	.....	.....	.....	73	918	1,294	433	4,719
Total.....	1,228	609	48	.....	512	1,126	1,286	677	1,592	1,870	685	10,722

MINE-RUN COAL

Coalspur	31	32	56	.....	.....	.....	.....	.....	.....	.....	.....	119
Prairie Creek	200	96	64	.....	64	32	.....	.....	63	74	63	735
Saunders .....	.....	34	.....	.....	.....	.....	.....	45	38	.....	34	190
Total.....	231	162	120	.....	64	32	45	101	74	97	118	1,044

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	213	316	236	.....	31	.....	.....	169	480	532	77	274	2,328
Prairie Creek	31	30	.....	.....	.....	.....	.....	.....	.....	95	31	.....	187
Saunders	768	741	505	.....	190	113	189	186	537	1,012	473	500	5,214
Total.....	1,012	1,087	741	.....	221	113	189	355	1,017	1,639	581	774	7,729

SLACK COAL

Coalspur	164	107	101	58	54	.....	55	.....	32	.....	.....	59	630
Saunders	243	370	81	.....	.....	61	.....	39	234	149	195	236	1,608
Total.....	407	477	182	58	54	61	55	39	266	149	195	295	2,238

Amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

LUMP COAL

Cascade	112	.....	.....	.....	.....	.....	.....	22	34	33	.....	12	223
Crowsnest	314	315	80	47	46	.....	145	99	584	903	402	1,158	4,093
Mountain Park	67	.....	.....	44	.....	33	.....	33	33	34	33	.....	277
Total.....	493	315	80	91	46	33	145	164	651	970	435	1,170	4,573

MINE-RUN COAL

Cascade .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	34	.....	34
Crowsnest	3,235	3,578	1,050	703	274	82	171	789	2,894	2,204	1,635	2,071	18,686
Mountain Park	166	301	66	33	.....	33	.....	34	199	117	167	193	1,309
Total.....	3,401	3,879	1,116	736	274	115	171	823	3,093	2,321	1,836	2,264	20,029

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Carbon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	373	.....	.....	373
Drumheller .....	.....	.....	.....	31	33	.....	.....	.....	.....	717	370	470	1,621
Redcliff .....	.....	.....	.....	.....	.....	.....	.....	.....	70	.....	.....	.....	70
Sheerness	34	.....	.....	.....	.....	.....	.....	.....	.....	33	33	32	99
Tofield	3,054	2,365	4,190	1,504	1,732	963	1,013	1,139	1,706	1,479	3,413	3,004	25,556
Total.....	3,088	2,365	4,190	1,535	1,765	963	1,013	1,139	1,770	2,569	3,816	3,506	27,719

NUT COAL

Carbon	740	844	263	138	.....	.....	.....	.....	582	1,012	522	795	4,896
Drumheller	3,517	3,695	1,166	357	248	.....	165	463	2,190	5,676	3,402	4,575	25,551
Edmonton .....	.....	.....	.....	.....	.....	97	.....	.....	.....	31	32	.....	63
Lethbridge	66	148	32	.....	.....	.....	.....	33	139	132	211	66	827
Pembina	432	515	269	.....	.....	.....	.....	.....	368	414	335	856	3,189
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	31	33	33	.....	97
Total.....	4,755	5,202	1,730	495	248	97	165	496	3,310	7,258	4,535	6,292	34,623

SLACK COAL

Carbon	545	70	256	36	109	.....	.....	.....	.....	36	629	.....	1,681
Drumheller	1,945	3,380	3,092	460	82	33	.....	.....	1,969	2,485	3,115	3,537	20,048
Total.....	2,490	3,450	3,348	496	141	33	.....	.....	1,969	2,521	3,744	3,537	21,729

Amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

Coalspur	2,469	2,278	815	81	84	.....	707	1,185	1,593	2,257	3,037	3,703	18,209
Prairie Creek	285	338	.....	.....	.....	.....	.....	.....	129	311	301	365	1,729
Saunders	609	324	31	.....	63	.....	66	181	669	653	1,286	1,089	4,971
Total.....	3,363	2,940	846	81	147	773	1,366	2,391	3,221	4,624	5,157	24,909

MINE-RUN COAL

Coalspur	89	162	31	41	323
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NUT COAL

Coalspur	1,185	1,327	2,158	95	606	365	637	1,998	2,310	6,736	5,377	22,794
Prairie Creek	85	111	570	125	16	16	933
Saunders	399	439	106	.....	68	163	139	77	499	464	566	751	3,671
Total.....	1,679	1,877	2,264	95	674	163	504	714	3,067	2,899	7,318	6,144	27,398

SLACK COAL

Coalspur	531	428	143	175	198	.....	272	479	1,278	1,378	1,030	1,354	7,296
Prairie Creek	821	708	99	.....	.....	.....	.....	.....	.....	1,166	1,691	1,171	5,656
Saunders	93	29	.....	.....	.....	.....	.....	.....	242	350	288	255	1,257
Total.....	1,445	1,165	242	175	198	.....	272	479	1,520	2,894	3,009	2,810	14,209

Amount of Bituminous Coal disposed of by areas during each month for consumption in Manitoba:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	33	.....	.....	120
Crowsnest .....	.....	96	83	.....	.....	228	97	131	116	115	49	32	996
Mountain Park	201	78	33	33	.....	.....	.....	.....	34	33	67	.....	479
Total.....	201	174	116	33	49	228	97	131	150	181	116	119	1,595

MINE-RUN COAL

Cascade .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	.....	.....	31
Crowsnest	1,047	705	105	33	34	33	49	144	878	639	794	825	5,886
Mountain Park	952	642	722	80	.....	1,160	1,308	1,017	267	883	1,062	1,483	9,576
Total.....	1,999	1,347	1,127	113	34	1,193	1,357	1,161	1,145	1,553	1,856	2,308	15,193

NUT COAL

Cascade	268	430	195	97	105	.....	.....	.....	77	272	494	621	2,559
Crowsnest	64	32	97	267	189	139	190	127	261	141	179	45	1,731
Total.....	332	462	292	364	294	139	190	127	338	413	673	666	4,290

SLACK COAL

Cascade	377	261	156	224	97	127	.....	88	178	96	176	471	2,251
Crowsnest	7,487	8,811	6,609	2,343	1,543	1,099	546	1,181	2,797	4,441	5,636	6,994	49,417
Mountain Park	9,066	8,178	6,618	4,157	352	4,570	5,401	4,362	5,166	6,250	6,406	7,182	67,708
Nordegg	91	67	33	46	.....	.....	.....	.....	.....	.....	.....	.....	237
Total.....	17,021	17,317	13,416	6,770	1,992	5,796	5,947	5,631	8,141	10,787	12,218	14,577	119,613

Amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Ontario:

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	131	131	69	.....	.....	74	319	762	1,363	2,780	2,879	1,018	9,526
Prairie Creek	32	.....	.....	.....	.....	.....	.....	.....	.....	120	31	81	264
Saunders	334	234	44	.....	.....	.....	41	169	247	622	958	559	3,208
Total.....	497	365	113	.....	.....	74	360	931	1,610	3,522	3,868	1,658	12,998

MINE-RUN COAL

Coalspur .....	.....	66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	66
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	45	.....	.....	45
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	.....	66	.....	.....	.....	.....	.....	.....	.....	45	.....	.....	111

NUT COAL

Coalspur	32	32	.....	.....	.....	.....	53	271	696	1,288	1,460	601	4,433
Prairie Creek .....	.....	213	32	.....	.....	31	.....	.....	.....	.....	62	31	93
Saunders	30	.....	.....	.....	.....	.....	.....	.....	99	65	240	403	1,113
Total.....	62	245	32	.....	.....	31	53	271	795	1,353	1,762	1,035	5,639

SLACK COAL

Coalspur .....	.....	.....	.....	.....	.....	.....	2	144	141	77	18	.....	382
Prairie Creek .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	36	.....	.....	36
Saunders .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	.....	.....	.....	.....	.....	.....	2	144	141	113	18	.....	418

Amount of Bituminous Coal disposed of by areas during each month for consumption in the United States:
LUMP COAL

Crowsnest	49	49	82	49	81	310
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MINE-RUN COAL

Crowsnest	48	48
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SLACK COAL

Crowsnest	478	806	298	249	210	97	207	304	356	372	349	3,726
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Amount of Domestic Coal used under Colliery Boilers by areas during each month:

Ardley	70	70	15	.....	.....	.....	.....	.....	120	120	120	100	75	760
Brooks	13	7	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	25
Camrose	52	48	44	39	35	33	33	35	50	50	50	61	90	615
Carbon	40	40	48	22	20	12	12	20	62	62	50	40	40	471
Castor	24	20	14	.....	.....	.....	.....	.....	2	2	11	12	14	98
Drumheller	2,025	1,800	645	492	498	498	498	954	1,370	1,370	2,475	2,340	2,457	16,779
Edmonton	1,921	1,024	503	434	355	214	214	356	689	689	848	1,022	1,505	8,918
Lethbridge	3,403	3,655	2,014	2,011	1,942	1,973	1,973	3,118	3,456	3,456	3,757	3,417	3,681	35,387
Pembina	835	799	86	75	74	73	73	111	900	900	925	938	1,076	6,739
Rochester	50	60	19	.....	.....	.....	.....	.....	.....	.....	15	40	70	304
Sheerness	148	165	148	128	110	85	85	98	116	116	112	105	150	1,533
Tofield	150	150	150	150	150	150	150	150	150	150	150	150	150	1,800
Total.....	8,018	7,844	3,672	3,352	3,184	3,038	3,038	4,997	6,915	8,544	8,225	9,308	73,429	

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	2,377	2,325	2,249	1,740	1,731	1,366	1,161	1,439	1,073	1,962	2,112	1,967	22,102
Pincher	324	282	259	138	136	130	237	371	344	403	404	499	30
Prairie Creek	384	445	330	170	328	430	270	341	590	496	595	605	3,527
Saunders													4,984
Total.....	3,085	3,052	2,838	2,048	2,195	1,926	1,668	2,156	2,612	2,866	3,121	3,076	30,643

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Cascade	1,391	1,206	1,501	1,252	1,487	1,445	1,131	1,372	1,150	1,506	1,687	1,438	16,676
Crownest	2,689	2,355	2,586	1,740	1,734	1,627	1,529	1,654	1,802	2,013	2,194	2,906	24,829
Mountain Park	2,532	2,254	2,402	2,108	2,121	2,470	1,855	2,311	2,031	2,394	2,431	2,796	27,755
Nordegg	745	791	722	630	566	487	435	491	463	546	592	717	7,185
Total.....	7,357	6,606	7,211	5,730	5,908	6,029	5,030	5,828	5,446	6,459	6,924	7,917	76,445

Amount of Domestic Coal used by Colliery Railroads by areas during each month:

Lethbridge	31	11	16	.....	.....	.....	.....	9	19	19	12	25	136
Pembina	40	30	25	.....	.....	.....	.....	.....	25	33	40	65	258
Redcliff	36	.....	.....	60	21	27	33	30	62	103	85	85	542
Total.....	107	41	35	60	21	27	33	39	106	155	137	175	936

Amount of Sub-Bituminous Coal used by Colliery Railroads by areas during each month:

Coalspur	439	433	375	312	313	213	120	239	367	391	507	549	4,258
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Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Cascade	24 41	24 35	24 41	20 35	27 43	30 45	6 45	30 45	18 47	27 35	30 38	30 60	290 510
Total.....	65	59	65	55	70	75	51	75	65	62	68	90	800

Amount of Bituminous Coal used making Briquettes:

Cascade	1,743	1,104	753	453	661	573	184	1,633	1,475	2,190	1,658	2,508	14,935
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Amount of Bituminous Coal used in making Coke:

Crowsnest	3,999	5,457	7,362	7,002	7,221	6,688	5,928	5,887	5,945	5,899	6,596	7,291	75,275
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Amount of Domestic Coal Put to Stock by areas during each month:

Ardley	50	10	10	100	385	300	300	200	1,355
Camrose .....	.....	.....	.....	.....	.....	.....	.....	70	50	80	.....	.....	130
Carbon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	140	135	345
Champion	100	35	45	95	50	95	50	150	514	15	15	20	50
Drumheller	50	.....	.....	26	.....	.....	.....	.....	988	960	180	160	2,434
Edmonton .....	.....	.....	.....	.....	.....	.....	10	.....	.....	1,173	155	49	2,882
Halcourt	271	1,880	666	50	82	187	117	236	1,089	2,303	883	.....	15
Lethbridge .....	.....	.....	.....	.....	.....	.....	.....	28	.....	.....	.....	1,588	9,352
Magrath .....	.....	.....	.....	7	.....	.....	.....	.....	38	358	330	81	35
Pakowki	460	210	40	.....	.....	.....	.....	.....	.....	.....	.....	647	2,083
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	931	2,125	751	188	137	282	187	584	3,064	5,189	2,003	3,321	18,762

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Coalspur	320	75	.....	45	7	.....	.....	.....	.....	.....	15	300	762
Pekisko .....	.....	10	21	.....	.....	.....	.....	.....	.....	10	32	10	83
Pincher .....	.....	.....	.....	.....	16	.....	.....	81	11	55	10	17	190
Saunders .....	.....	.....	89	.....	132	116	93	277	225	136	.....	.....	1,068
Total.....	320	85	110	45	155	116	93	358	236	201	57	327	2,103

Amount of Bituminous Coal Put to Stock by areas during each month:

Cascade	300	789	274	305	487	373	220	576	251	473	595	379	5,022
Crownest	1,741	84	2,002	2,672	15	133	147	664	1,392	45	1,391	53	10,339
Nordegge .....	.....	.....	.....	.....	.....	.....	.....	1,778	.....	.....	.....	.....	1,778
Total.....	2,041	873	2,276	2,977	502	506	367	3,018	1,643	518	1,986	432	17,139

Amount of Domestic Coal Put to Waste by areas during each month:

Ardley .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Big Valley	75	74	.....	15	11	6	.....	1	6	14	7	32	288
Camrose	155	104	47	.....	.....	65	.....	.....	176	241	74	260	1,149
Carbon	286	206	255	229	107	54	10	33	685	986	292	72	3,215
Castor	238	201	152	45	16	23	23	35	119	353	214	307	1,726
Champion	93	85	70	15	30	25	32	63	76	86	70	57	702
Drumheller .....	.....	.....	.....	.....	.....	.....	.....	.....	200	.....	300	95	595
Edmonton	338	435	209	4	.....	.....	.....	.....	108	182	146	238	1,660
Falcourt	5	8	3	.....	.....	.....	.....	.....	5	9	13	5	48
Lethbridge	395	509	162	8	7	6	21	291	783	846	655	802	4,485
Milk River	7	7	6	4	1	2	4	10	43	24	23	9	140
Pakowki	28	12	46	4	8	4	2	3	37	71	58	41	314
Pembina	801	809	645	2	.....	.....	.....	.....	405	545	288	585	4,080
Rochester	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheerness	149	114	75	11	29	15	30	34	190	300	208	234	1,409
Steveville	40	10	.....	.....	.....	.....	49	75	239	160	233	.....	50
Taber	164	179	74	70	41	47	.....	.....	.....	.....	.....	.....	1,387
Wetaskwin .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	10
Total.....	2,784	2,753	1,818	407	250	247	171	545	3,072	3,817	2,601	3,003	21,468

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Coalspur	5,609	10,601	10,865	8,723	7,031	1,761	342	3,724	11,027	10,900	11,310	11,313	93,206
Pekisko	50	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	10	90
Pincher	23	4	.....	5	.....	.....	.....	.....	20	15	.....	.....	67
Total.....	5,682	10,605	10,865	8,728	7,031	1,761	342	3,724	11,047	10,945	11,310	11,323	93,363

Amount of Bituminous Coal Put to Waste by areas during each month:

Cascade	10	10	10	.....	.....	.....	.....	.....	.....	50	.....	.....	80
Crowsnest	2,482	2,402	2,149	2,012	1,937	1,922	1,533	1,543	1,226	1,391	1,496	1,674	21,768
Total.....	2,492	2,413	2,159	2,012	1,937	1,922	1,533	1,543	1,226	1,441	1,496	1,674	21,848

Amount of Domestic Coal Lifted from Stock by areas during each month:

Ardley	30	.....	33	92	437	292	11	76	.....	.....	.....	.....	139
Camrose .....	.....	.....	.....	45	95	50	95	11	70	.....	.....	.....	843
Carbon	60	100	35	.....	.....	.....	371	105	150	114	260	140	210
Drumheller .....	.....	.....	30	.....	.....	.....	.....	.....	.....	225	200	180	1,279
Edmonton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	203	1,134
Halcourt	1,109	427	1,691	1,731	1,508	542	899	877	9	749	1,143	7	16
Lethbridge .....	.....	.....	210	3	2	1	.....	33	35	38	358	874	11,706
Pakowki	42	460	.....	.....	110	49	.....	.....	49	.....	.....	330	35
Pembina .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,477
Taber .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	208
Total.....	1,241	987	1,999	1,871	2,152	934	1,376	1,197	469	1,126	1,961	1,734	17,047

Amount of Sub-Bituminous Coal Lifted from Stock by areas during each month:

Coalspur	276	80	75	50	375	207	60	.....	.....	.....	.....	.....	1,123
Pekisko	30	7	5	20	1	5	.....	.....	.....	.....	5	.....	78
Saunders .....	.....	.....	.....	89	.....	132	116	93	277	225	136	.....	1,068
Total.....	306	87	80	159	376	344	176	93	277	225	141	5	2,269

Amount of Bituminous Coal Lifted from Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Cascade	477	300	790	274	305	487	523	220	576	252	473	603	5,280
Crownsnest	1,050	1,161	8	5	128	2,073	2,395	142	12	420	48	3,679	11,321
Nordegg .....	.....	.....	.....	.....	.....	.....	.....	.....	1,778	.....	.....	.....	1,778
Total.....	1,527	1,461	798	279	433	2,560	3,118	362	2,366	672	521	4,282	18,379
Total.....	3,074	2,535	2,877	2,309	2,961	3,838	4,670	1,652	3,112	2,023	2,623	6,021	37,695

Amount of Domestic Coal Lifted from Waste by areas during each month:

Camrose .....	.....	.....	.....	.....	155	.....	61	.....	.....	.....	100	.....	316
Carbon	224	.....	318	396	.....	.....	.....	.....	.....	.....	.....	.....	938
Drumheller .....	.....	.....	720	679	.....	.....	.....	.....	.....	.....	.....	.....	1,399
Edmonton .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	39	39
Lethbridge .....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Rochester .....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
Taber .....	.....	.....	.....	.....	.....	.....	.....	90	.....	.....	92	.....	182
Total.....	224	.....	1,048	1,075	155	.....	62	90	.....	.....	192	39	2,885

Amount of Bituminous Coal Lifted from Waste by areas during each month:

Cascade .....	.....	.....	.....	.....	.....	110	.....	.....	.....	.....	.....	.....	410
Crownsnest .....	.....	.....	.....	.....	42	27	20	34	73	87	68	117	468
Total.....	.....	.....	.....	.....	42	137	20	334	73	87	68	117	878

OUTPUT AND NUMBER OF MINES PRODUCING

Kind of Coal	Under 1,000 tons		From 1,000 to 5,000		From 5,000 to 10,000		From 10,000 to 50,000		From 50,000 to 100,000		From 100,000 to 150,000		From 150,000 to 200,000		Over 200,000		Total
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	
Domestic	168	63,439	70	147,828	12	73,257	28	674,270	18	1,193,400	2	281,853	...	...	...	298	2,434,047
Sub-Bituminous	13	3,799	...	...	...	...	7	175,022	1	65,955	1	145,162	1	164,203	...	23	554,141
Bituminous	4	295	2	4,879	...	...	...	...	1	60,603	5	667,569	3	483,253	2	17	1,726,596
Total.....	185	67,533	72	152,707	12	73,257	35	849,292	20	1,319,958	8	1,094,584	4	650,456	2	506,997	4,714,784

THE MINES BRANCH

Number of men employed in the DOMESTIC FIELD as at December 31, 1933:

Areas	BELOW GROUND												Total Below Ground	ABOVE GROUND										Total Above and Below Ground
	Officials	Hand Cutters	Machine Cutters & Helpers	Machine Loaders	Horse H'g's Employees	Mechanical H'g's Emp's	Ventilation Employees	Roadmakers	Timbermen	Pumpmen	Other Employees	ABOVE GROUND												
												Adminis- tration		Foremen and Clerks	Screenmen and Loaders	Enginemen	Firemen	Machinists	Carpenters and Masons	Other Mechanics	Surface Haulage	All Other Employees	Total Above Ground	
Ardley	11	25	3	18	2	...	...	...	...	...	4	63	1	1	4	2	...	...	...	...	1	5	14	77
Big Valley	5	2	2	1	...	...	...	...	...	...	...	10	...	2	...	...	...	...	...	...	1	3	8	17
Brooks	1	7	...	...	...	...	...	...	...	...	...	8	...	2	...	...	...	...	...	...	...	...	...	16
Camrose	6	63	...	...	6	...	...	...	...	...	...	78	...	4	...	...	...	...	...	...	2	8	27	105
Carbon	15	29	16	121	23	2	...	2	1	1	1	211	3	5	27	1	...	...	...	...	5	3	44	255
Castor	33	91	...	...	...	...	...	...	...	...	...	126	4	1	1	6	...	...	...	...	2	3	17	143
Champion	10	61	...	...	2	...	...	...	...	...	...	75	1	...	...	...	...	...	...	...	3	3	8	88
Drumheller	95	59	216	1,411	237	61	17	77	35	6	58	2,272	20	51	218	22	8	16	5	13	8	97	458	2,730
Edmonton	47	362	48	310	60	8	3	17	49	10	57	971	11	24	48	25	6	1	7	4	9	43	178	1,149
Gleichen	4	10	1	8	...	...	...	...	...	...	...	19	1	...	...	...	...	...	...	...	...	...	21	27
Halcourt	7	15	...	...	...	...	...	...	...	...	1	23	...	...	...	...	...	...	...	...	...	3	4	27
Lethbridge	43	66	168	428	103	51	21	10	39	6	10	945	5	21	85	25	14	15	6	13	4	76	264	1,209
Lethbridge	3	5	...	...	...	...	...	...	...	...	...	8	...	...	...	...	...	...	...	...	1	...	1	9
Magrath	2	10	...	...	1	...	...	...	...	...	...	18	2	...	...	...	...	...	...	...	...	2	4	17
Milk River	7	5	...	...	...	...	...	...	...	...	...	12	...	...	...	...	...	...	...	...	...	...	1	13
Pakowki	6	27	2	19	4	6	...	1	...	...	1	66	3	4	10	6	2	2	1	...	...	18	57	123
Pembina	3	...	4	33	6	...	1	1	1	...	...	49	...	...	...	...	...	...	...	...	2	1	15	64
Redcliff	1	3	...	...	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	3	3	11
Rochester	12	25	...	...	1	...	...	...	...	...	...	38	8	6	1	1	...	...	...	...	2	25	43	81
Sheerness	11	10	4	21	2	...	...	1	...	...	...	49	3	3	...	...	...	...	...	...	2	5	12	61
Taber	1	4	...	...	...	...	...	...	...	...	...	5	4	6	36	1	...	...	...	...	1	6	56	61
Tofield	1	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	1	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...
No Area	1	2	...	...	1	...	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	...
Total	325	882	464	2,365	448	128	42	109	125	24	139	5,051	75	123	465	98	30	36	19	32	43	309	1,230	6,281

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31, 1933:

Areas	BELOW GROUND										ABOVE GROUND										Total Above and Below Ground						
	Officials		Hand Cutters	Machine Cut- ters & Helpers	Machine Loaders	Chute Loaders	Horse H'ige Employees	Mechanical H'ige Emp's	Ventilation Employees	Road Makers	Timber Men	Pump Men	Other Employees	Total Underground	Aminis- tration	Foremen and Clerks	Screenmen and Loaders	Enginemen	Firemen	Machinists		Carpenters and Masons	Other Mechanics	Surface Surtage	All Other Employees	Total Above Ground	
Coalspur	11	167	6	...	19	20	2	2	...	12	...	1	240	10	16	70	26	18	6	7	12	12	105	282	522		
Pekisko	3	4	...	...	...	...	...	...	...	...	...	...	7	...	...	...	...	...	...	...	...	...	...	2	9
Pincher	4	2	...	...	...	...	...	...	...	...	...	...	6	2	1	...	2	...	...	...	...	...	...	4	10
Prairie Creek	5	63	4	24	2	8	4	1	5	4	...	16	186	1	6	24	5	3	1	2	2	7	3	54	190		
Saunders	4	20	12	49	...	5	6	...	1	2	...	2	101	3	2	14	4	5	1	1	...	2	3	35	186		
Total.....	27	256	22	73	21	33	12	3	6	18	...	19	490	16	25	108	37	26	8	10	14	22	111	377	867		
BITUMINOUS FIELD																											
Cascade	18	130	...	...	...	12	38	3	5	2	6	216	1	8	32	7	10	3	1	1	...	...	12	75	291
Crownest	58	637	...	...	...	37	97	11	18	60	11	1,177	11	49	110	21	17	16	10	15	31	153	433	1,610	
Mountain Park	18	239	22	...	...	39	42	22	11	35	6	523	3	20	87	15	21	11	5	5	24	66	257	780	
Nordeggs	8	104	...	...	...	19	9	1	14	14	1	170	2	13	13	3	3	2	3	5	2	39	85	255	
Total.....	102	1,110	22	...	126	107	186	40	48	111	20	2,086	17	90	242	46	51	32	19	26	57	270	850	2,936			
SUMMARY																											
Domestic	325	882	464	2,365	...	448	128	42	109	125	24	139	5,051	75	123	465	98	30	36	19	32	43	309	1,230	6,281		
Sub-Bituminous	27	256	22	73	21	33	12	3	6	18	...	19	490	16	25	108	37	26	8	10	14	22	111	377	867		
Bituminous	102	1,110	22	...	126	107	186	40	48	111	20	2,086	17	90	242	46	51	32	19	26	57	270	850	2,936			
Total.....	454	2,248	508	2,438	147	588	326	85	163	254	44	372	7,637	108	238	815	181	107	76	48	72	122	690	2,457	10,084		

BITUMINOUS FIELD

SUMMARY

Men employed above and below ground in the DOMESTIC FIELD by areas each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Ardley	68	63	51	18	2	5	8	29	41	72	76	77	42
Big Valley	61	46	40	9	9	32	4	4	95	96	97	17	42
Brooks	11	11	9	4	5	3	4	7	21	30	19	16	12
Camrose	83	78	69	46	40	45	33	49	73	95	93	105	67
Carbon	231	230	206	169	134	128	123	165	219	279	269	255	201
Castor	123	117	98	38	29	23	17	26	71	131	150	133	83
Champion	66	70	59	36	38	39	36	53	90	88	90	83	62
Drumheller	2,774	2,474	1,891	928	550	496	525	1,083	2,218	2,755	2,745	2,730	1,764
Edmonton	1,074	928	734	488	452	415	356	464	796	1,009	1,046	1,149	742
Gleichen	16	17	14	10	8	7	5	3	14	26	22	21	13
Halcourt	23	21	18	.....	2	3	3	.....	7	18	20	27	14
Lethbridge	18	18	1,042	867	847	819	829	989	1,142	1,199	1,222	1,209	1,055
Magrath	8	8	8	8	2	4	4	4	8	5	9	9	6
Milk River	11	11	11	11	7	8	8	12	29	30	29	17	15
Pakowki	14	14	12	11	7	7	7	14	14	13	14	11	11
Pembina	169	166	164	59	56	52	52	83	120	116	115	133	106
Redcliff	51	37	29	36	33	42	54	55	62	64	66	64	49
Rochester	12	11	10	8	.....	.....	.....	.....	.....	11	9	11	10
Sheerness	59	58	48	30	31	39	35	42	101	116	105	81	62
Steveville	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Taber	68	61	27	30	20	18	.....	.....	60	68	65	61	44
Tofield	68	71	58	59	53	82	69	88	60	64	63	61	68
Wetaskiwin .....	.....	2	2	.....	.....	.....	.....	.....	.....	3	2	2	2
Whitecourt .....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
No Area .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Total	6,288	5,703	4,602	2,862	2,355	2,257	2,191	3,204	5,241	6,308	6,330	6,281	4,480

Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas each month

Coalspur	512	504	397	392	358	278	327	371	482	506	521	522	430
Pekisko	6	8	8	6	4	6	8	5	5	18	11	9	7
Pincher	13	12	11	7	7	8	2	7	8	13	12	10	9
Prairie Creek	175	172	156	109	108	105	96	135	135	161	162	190	142
Saunders	121	113	48	33	78	87	73	104	123	128	131	136	98
Total.....	827	809	620	547	555	484	506	622	753	876	837	867	686

Men employed above and below ground in the BITUMINOUS FIELD by areas each month

Cascade	299	300	299	300	300	800	300	296	295	292	293	291	297
Crowsnest	1,613	1,613	1,614	1,617	1,616	1,618	1,613	1,619	1,618	1,608	1,613	1,610	1,615
Mountain Park	768	726	711	704	683	686	698	688	717	729	781	780	722
Nordegg	242	243	243	242	239	236	236	234	241	242	252	255	242
Total.....	2,928	2,882	2,867	2,863	2,838	2,840	2,847	2,837	2,871	2,871	2,939	2,936	2,876

Men employed above and below ground in the DOMESTIC, SUB-BITUMINOUS and BITUMINOUS FIELDS by areas each month:

Domestic	6,288	5,703	4,602	2,862	2,355	2,267	2,191	3,207	5,241	6,308	6,330	6,281	4,480
Sub-Bituminous	827	809	620	547	555	484	506	622	753	876	837	867	686
Bituminous	2,928	2,882	2,867	2,863	2,838	2,840	2,847	2,837	2,871	2,871	2,939	2,936	2,876
Total.....	10,043	9,394	8,089	6,272	5,748	5,591	5,544	6,663	8,865	10,055	10,106	10,084	8,042

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE.

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	688
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,203,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,682	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC
COAL FIELD.

1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,714	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD.

Year		Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
1922.....	Stp. Pit	367,514	217	1,692	.....	.....
	B. Grd.	179,550	403	445	277	648
1923.....	Stp. Pit	288,467	190	1,513	.....	.....
	B. Grd.	174,994	354	494	260	673
1924.....	Stp. Pit	369,724	211	1,752	.....	.....
	B. Grd.	222,222	393	565	278	799
1925.....	Stp. Pit	335,993	162	2,074	.....	.....
	B. Grd.	245,842	461	533	326	754
1926.....	Stp. Pit	258,964	147	1,761	.....	.....
	B. Grd.	231,407	443	545	305	753
1927.....	Stp. Pit	304,584	193	1,583	.....	.....
	B. Grd.	290,606	478	608	321	905
1928.....	Stp. Pit	394,682	179	2,205	.....	.....
	B. Grd.	345,810	645	536	457	756
1929.....	Stp. Pit	319,764	163	1,962	.....	.....
	B. Grd.	348,344	585	595	402	866
1930.....	Stp. Pit	304,144	157	1,937	.....	.....
	B. Grd.	299,187	569	526	390	767
1931.....	Stp. Pit	280,251	161	1,803	.....	.....
	B. Grd.	191,138	486	393	336	569
1932.....	Stp. Pit	348,266	177	1,868	.....	.....
	B. Grd.	211,213	491	430	341	619
1933.....	Stp. Pit	309,365	170	1,820	.....	.....
	B. Grd.	244,776	516	474	370	661

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD.

1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,253	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,636	820	2,597	1,109
1919	2,325,787	3,118	745	2,100	1,103
1920	3,410,021	4,228	809	2,711	1,202
1921	2,897,380	4,133	791	2,820	1,026
1922	2,214,273	3,034	729	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,008
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,892	916
1933	1,726,596	2,876	600	2,080	830

PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD.

1910	261,785	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	743
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

During the year 1909 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911 a strike, affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike, affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike, affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike, affecting all the larger mines in the Province, lasted for a period of six and a half months.

NOTE: In calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnages used in the above and following tables do not include tonnage extracted under permit.

Per Capita Production of Mines by areas:

DOMESTIC COAL FIELD

Areas	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
Ardley	20,099	42	479	34	591
Big Valley	4,407	43	103	9	489
Brooks	6,614	12	551	5	1,322
Camrose	37,454	67	559	51	734
Carbon	100,549	201	500	166	606
Castor	34,694	83	418	71	489
Champion	20,541	62	331	56	367
Drumheller	1,112,204	1,764	631	1,431	777
Edmonton	477,791	742	644	616	776
Gleichen	4,662	13	359	12	389
Halcourt	2,873	14	205	11	261
Lethbridge	335,166	1,055	318	817	410
Magrath	2,013	6	336	5	403
Milk River	5,295	15	353	8	662
Pakowki	2,602	11	237	10	260
Pembina	101,684	106	959	68	1,642
Redcliff	32,267	49	659	40	806
Rochester	1,348	10	135	4	337
Sheerness	27,290	62	440	29	941
Steveville	100	3	33	1	100
Taber	15,813	44	359	35	452
Tofield, Stripping	84,649	63	1,344	.....	.....
Tofield, Underground	3,563	6	594	4	891
Wetaskiwin	170	2	85	1	170
Whitecourt	44	2	22	1	44
No Area	155	3	52	2	78
Total.....	2,434,047	4,480	543	3,487	698

SUB-BITUMINOUS

Coalspur, Stripping	309,365	170	1,820	.....	.....
Coalspur, Underground	118,120	260	454	181	653
Pekisko	1,573	7	225	5	315
Pincher	1,983	9	220	6	331
Prairie Creek	84,765	142	597	106	800
Saunders	38,335	98	391	72	532
Total.....	554,141	686	808	370	661

BITUMINOUS

Areas	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
Cascade	124,607	297	450	220	566
Crowsnest	876,448	1,615	543	1,191	736
Mountain Park	584,430	722	809	512	1,141
Nordegg	141,111	242	583	157	893
Total.....	1,726,596	2,876	600	2,080	830

SUMMARY:

Domestic	2,434,047	4,480	543	3,487	698
Sub-Bituminous	554,141	686	808	370	661
Bituminous	1,726,596	2,876	600	2,080	830
Total.....	4,714,784	8,042	586	5,937	794

Number of days on which Coal was drawn in the DOMESTIC FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Ardley	27.17	18.08	10.55	4.33	3.00	5.00	6.25	18.67	13.29	15.64	12.82	19.50	154.30
Big Valley	20.80	21.20	13.20	5.33	6.66	7.50	4.50	5.50	9.75	19.50	15.50	15.33	144.77
Brooks	21.33	15.67	23.50	18.00	17.00	17.00	14.00	20.50	21.67	20.00	16.75	16.24	221.66
Camrose	19.50	15.83	14.20	11.25	13.00	8.33	5.00	9.75	14.20	18.57	13.25	18.50	161.38
Carbon	19.53	18.16	14.50	10.26	9.72	8.40	6.42	12.54	17.54	20.65	14.59	19.13	170.81
Castor	17.03	16.69	12.17	10.36	6.91	8.27	8.50	10.60	16.42	19.88	13.62	18.28	138.73
Champion	19.78	18.33	12.78	14.29	14.75	14.78	13.22	21.30	22.80	21.91	19.82	16.72	212.48
Drumheller	12.73	14.07	10.64	9.05	8.53	5.94	8.62	11.62	16.68	18.97	13.14	15.44	145.43
Edmonton	19.26	18.41	17.48	13.14	9.53	9.67	10.20	11.05	15.75	19.76	14.40	21.79	180.44
Gleichen	24.33	23.00	20.67	16.00	17.90	11.67	17.00	25.00	17.50	21.50	21.25	19.25	234.17
Haikourt	20.75	19.00	18.00	.....	5.00	17.00	25.00	.....	19.25	16.17	19.25	21.45	186.87
Lethbridge	15.20	15.40	11.58	10.67	8.75	11.08	10.86	12.75	17.50	18.28	17.95	16.33	160.35
Magrath	16.67	17.00	19.00	6.00	6.00	18.00	6.00	9.00	13.00	20.50	24.00	22.33	177.50
Milk River	17.67	17.33	17.67	10.00	12.33	9.33	14.00	12.33	22.67	21.67	15.67	13.00	133.77
Pakowki	11.15	10.55	8.83	4.50	3.00	4.67	9.33	12.00	17.67	19.33	19.71	14.42	135.16
Pembina	19.25	14.00	17.40	13.00	17.00	15.00	20.00	17.00	19.50	17.00	18.50	15.75	137.90
Redcliff	15.00	15.00	15.00	9.50	7.50	8.50	16.50	15.00	18.50	19.50	20.50	20.50	185.50
Rochester	19.00	16.00	15.00	6.00	.....	.....	.....	.....	.....	8.50	20.00	16.00	100.50
Sheerness	20.28	17.22	16.06	13.00	9.67	10.92	11.62	12.90	17.14	19.30	14.00	14.35	160.46
Steeville	26.00	8.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Taber	15.19	15.25	11.00	9.69	9.56	8.38	9.67	13.60	19.08	17.46	18.62	15.00	162.50
Tofield	21.25	18.50	20.67	10.33	17.50	18.50	26.00	10.33	13.33	25.67	22.00	.....	228.08
Wetaskwin	11.00	8.00	5.00	.....	.....	.....	.....	.....	.....	3.00	6.00	.....	49.00
Whitecourt .....	.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.00
No Area	10.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	25.00	15.00	50.00
Total.....	17.93	16.51	14.34	10.25	10.12	10.90	12.23	13.76	16.91	18.17	17.01	17.58	156.19

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas each month:

Coalspur	14.50	16.14	17.50	14.17	14.17	11.20	12.00	16.40	19.57	18.83	18.33	17.80	190.61
Pekisko	19.50	11.67	10.33	14.00	11.00	3.00	4.67	9.00	16.00	12.00	11.50	10.33	133.00
Pincher	18.75	14.50	19.67	12.67	6.33	3.00	...	7.67	12.33	16.25	17.00	14.33	142.50
Prairie Creek	18.00	14.00	11.00	17.00	16.00	17.00	19.00	12.50	17.00	20.00	18.50	19.50	199.50
Saunders	11.00	16.00	16.00	4.00	6.00	11.50	6.00	11.50	17.50	15.00	16.50	16.50	137.50
Total Average	16.35	14.46	14.90	12.37	10.70	9.14	10.42	11.41	16.48	16.42	16.37	15.69	162.62

Number of days on which coal was drawn in the BITUMINOUS FIELD by areas each month:

Cascade	16.50	15.00	16.00	10.50	12.00	12.50	8.00	14.50	9.00	16.50	17.00	17.50	175.00
Crowsnest	10.00	11.50	11.63	11.00	12.14	16.00	12.43	14.00	10.00	11.38	12.63	12.22	144.93
Mountain Park	15.33	13.33	13.66	12.34	9.67	13.67	13.67	12.67	13.33	15.67	16.67	18.00	168.01
Nordeg	9.00	11.00	11.00	11.00	7.00	7.00	7.00	8.00	7.00	8.00	14.00	13.00	113.00
Total Average	12.70	12.70	13.07	11.21	10.20	12.29	10.28	12.29	9.83	12.89	15.08	15.18	150.23

Number of days on which Coal was drawn each month:

Domestic	17.93	16.51	14.34	10.25	10.12	10.90	12.23	13.76	16.91	18.17	17.01	17.58	156.19
Sub-Bituminous	16.35	14.46	14.90	12.37	10.70	9.14	10.42	11.41	16.48	16.42	16.37	15.69	162.62
Bituminous	12.70	12.70	13.07	11.21	10.20	12.29	10.28	12.29	9.83	12.89	15.08	15.18	150.23
Total Average	15.75	14.56	14.10	11.28	10.34	10.78	10.98	12.49	14.41	15.83	16.15	16.15	156.35

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1933:

DOMESTIC FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	234	918	225	721	124	295	33	57	.....	11	36	15	652	2,017
Big Valley	206	166	201	124	119	97	11	35	.....	39	52	32	598	493
Brooks	118	110	99	98	103	77	28	45	89	39	27	13	464	382
Camrose	433	1,099	362	882	303	646	200	402	217	399	191	444	1,706	3,872
Carbon	793	3,375	765	3,089	497	1,615	345	1,239	302	951	239	565	2,941	10,834
Castor	456	1,510	418	1,362	306	821	108	228	50	236	71	165	1,409	4,322
Champion	195	1,282	173	1,247	102	820	79	440	102	486	88	516	739	4,791
Drumheller	6,611	26,866	6,976	27,507	4,319	11,914	2,360	5,823	2,197	4,205	1,681	2,801	24,144	79,116
Edmonton	3,533	16,512	2,957	14,536	2,520	10,641	1,509	5,950	1,422	4,148	1,427	2,050	13,368	52,937
Gleichen	59	189	62	273	41	175	35	96	29	84	30	51	256	868
Halcourt	50	398	29	265	41	264	.....	.....	.....	10	10	24	130	961
Lethbridge	3,970	9,616	4,240	11,386	2,983	4,864	2,019	3,134	2,046	2,675	2,272	3,596	17,535	35,371
Magrath	54	109	50	124	57	94	21	34	6	14	18	76	206	451
Milk River	107	134	85	127	95	75	26	35	33	34	39	25	385	430
Pakowski	51	139	35	110	28	50	.....	35	24	11	9	29	173	374
Femina	1,131	1,899	1,106	1,831	1,098	1,736	443	910	378	637	332	550	4,438	7,583
Redcliff	144	646	154	693	72	365	64	247	52	195	90	575	516	2,921
Rochester	140	369	130	53	120	69	36	12	.....	.....	.....	.....	426	192
Sheerness	333	571	373	445	308	840	127	192	173	137	207	140	1,571	1,825
Steveville	78	20	5	20	.....	.....	2	13	.....	.....	.....	.....	7	111
Taber	323	821	314	707	130	192	126	146	108	115	38	115	1,039	2,096
Tetfield	1,412	136	1,304	131	1,376	39	1,179	1	1,926	.....	1,922	.....	9,119	308
Wetaskiwin	4	17	5	11	3	7	.....	.....	.....	.....	.....	.....	12	35
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
No Area	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....
Total	20,427	66,660	20,068	65,743	14,750	35,210	8,777	18,174	9,163	14,426	8,779	11,752	81,984	211,995

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1933:

DOMESTIC FIELD

Areas	July		August		September		October		November		December		Total		Total for year 1933	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Ardley	36	27	258	290	235	435	265	926	294	869	379	1,025	1,467	3,632	2,119	5,649
Big Valley	4	14	.....	21	302	58	370	88	282	104	115	135	1,073	420	1,671	913
Brooks	29	27	92	49	180	140	241	161	231	222	139	109	912	708	1,376	1,090
Camrose	156	208	326	396	360	1,002	615	1,460	430	1,126	653	1,018	2,540	5,806	4,246	9,678
Carbon	207	650	338	1,832	561	2,976	1,570	4,086	1,640	2,344	900	3,586	5,216	15,474	8,857	26,308
Castor	55	109	210	256	340	568	551	2,174	421	1,299	153	548	1,730	4,955	3,139	9,277
Champion	81	507	157	978	241	1,385	288	1,514	244	1,458	196	954	1,207	6,796	1,946	11,587
Drumheller	2,387	3,553	4,522	11,076	8,072	27,931	10,510	43,211	7,917	30,107	8,702	35,653	42,110	159,448	66,254	238,564
Edmonton	1,416	2,587	1,721	4,285	2,946	10,437	3,533	16,050	3,095	13,718	3,905	20,645	16,616	67,782	29,984	129,719
Gleichen	44	48	25	50	54	208	96	433	75	208	72	290	366	1,339	622	2,207
Halcourt	3	27	.....	.....	39	174	49	282	42	275	129	409	262	1,147	392	2,108
Lethbridge	2,326	2,929	3,438	7,550	4,639	12,570	5,583	15,793	4,389	11,198	4,656	13,534	25,031	63,913	42,586	99,184
Magrath	6	36	15	74	25	56	18	48	43	137	37	138	144	489	350	940
Milk River	30	60	51	79	72	215	230	240	282	264	68	129	733	987	1,118	1,417
Pakowki	16	64	1	96	56	172	66	198	71	213	33	147	243	320	416	1,294
Pembina	358	634	468	648	889	1,247	851	1,056	801	812	667	2,842	4,034	7,239	8,522	14,822
Redcliff	162	847	149	799	211	815	196	852	300	1,047	301	943	1,319	5,303	1,895	8,024
Rochester .....	.....	.....	.....	.....	.....	.....	79	11	122	49	116	59	317	119	743	311
Sheerness	173	178	361	215	741	466	1,028	668	1,086	416	684	484	4,073	2,427	5,644	4,252
Steeville .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	111
Taber	32	165	112	255	314	730	345	939	284	740	236	539	1,323	3,368	2,862	5,464
Tofield	1,794	.....	1,852	6	1,274	27	1,312	200	1,331	96	1,188	115	8,751	444	17,870	752
Wetaskiwin .....	.....	.....	.....	.....	.....	.....	8	.....	12	.....	4	23	24	23	36	58
Whitecourt .....	.....	.....	.....	.....	.....	.....	.....	.....	15	35	.....	60	.....	95	.....	5
No Area .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	78	.....	93	.....	113	95
Total	9,315	12,670	14,096	28,985	21,551	61,741	27,804	90,370	23,407	67,169	23,351	83,985	119,584	352,834	201,548	564,829

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur	7,136	3,457	6,570	2,638	6,874	1,684	5,921	1,284	5,669	1,054	2,695	1,090	34,865	11,207
Pekisko	39	72	35	68	31	61	18	24	11	11	5	10	139	246
Pincher	129	92	123	97	121	97	27	73	19	31	6	15	425	405
Prairie Creek	908	2,386	805	1,865	599	1,704	447	1,384	1,361	478	461	1,297	4,581	9,114
Saunders	376	974	494	1,093	234	533	156	145	316	350	402	481	1,888	3,576
Total.....	8,558	6,986	7,937	5,756	7,859	4,079	6,569	2,910	7,376	1,924	3,569	2,893	41,898	24,548

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade	1,420	2,257	1,312	2,157	1,417	2,247	1,254	1,781	1,575	2,345	1,603	2,591	8,581	13,378
Crowsnest	8,169	12,176	8,360	15,002	8,512	15,471	7,003	13,360	7,912	15,673	8,582	18,618	48,538	90,300
Mountain Park	4,602	10,158	3,769	7,232	4,130	8,865	3,820	7,806	3,803	6,582	4,086	8,325	24,210	48,368
Nordegg	1,969	1,937	1,727	2,256	2,045	2,482	1,636	2,227	1,411	1,548	1,451	1,539	10,239	11,989
Total.....	16,160	26,528	15,168	26,647	16,104	29,065	13,713	25,174	14,701	26,148	15,722	31,073	91,568	164,635

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS FIELDS

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic	20,427	66,660	20,068	65,743	14,750	35,210	8,775	18,161	9,163	14,426	8,779	11,782	81,964	211,995
Sub-Bituminous	8,588	6,986	7,937	5,756	7,859	4,079	6,569	2,910	7,376	1,924	3,569	2,893	41,898	24,548
Bituminous	16,160	26,528	15,168	26,647	16,104	29,065	13,713	25,174	14,701	26,148	15,722	31,073	91,568	164,635
Total.....	45,175	100,176	43,173	98,146	38,713	68,354	29,057	46,245	31,240	42,498	28,070	45,748	215,430	401,178

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1933:

SUB-BITUMINOUS COAL FIELD

Areas	July		August		September		October		November		December		Total		Total for year 1933	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Coalspur	3,496	1,984	5,450	2,241	6,112	3,655	7,064	3,960	7,223	3,805	6,903	8,547	36,248	19,192	71,113	80,399
Pekisko	14	19	16	32	28	70	33	70	41	102	27	65	159	358	298	604
Pincher	15	15	19	38	39	59	53	146	68	139	49	80	477	668	668	882
Prairie Creek	471	1,194	709	1,356	734	1,725	912	2,002	894	1,872	1,251	2,917	4,971	11,066	9,552	20,180
Saunders	206	424	400	879	548	1,648	601	1,569	1,029	1,713	628	1,787	3,412	8,020	5,300	11,596
Total	4,202	3,636	6,594	4,546	7,461	7,157	8,663	7,747	9,255	7,631	8,858	8,396	45,033	39,113	86,931	63,661

BITUMINOUS COAL FIELD

Areas	July		August		September		October		November		December		Total		Total for year 1933	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Cascade	1,035	932	1,448	2,462	1,330	1,848	1,490	2,407	1,457	2,594	1,509	2,565	8,269	12,808	16,850	26,186
Crownest	7,608	16,477	8,759	19,962	6,713	12,432	7,372	14,849	7,635	15,953	9,341	15,320	47,428	91,993	95,966	182,293
Mountain Park	4,076	9,071	4,318	8,895	4,180	9,065	4,524	10,047	4,769	10,329	6,414	10,011	28,281	57,918	52,491	106,886
Nordegge	1,456	1,427	1,590	1,932	1,503	1,432	1,555	1,571	1,813	2,518	1,943	2,376	9,860	11,256	20,099	23,245
Total	14,175	27,907	16,115	33,251	13,726	24,777	14,941	28,874	15,674	31,894	19,207	30,272	93,838	173,975	185,406	338,610

TOTAL DOMESTIC, SUB-BITUMINOUS AND BITUMINOUS COAL FIELDS

Areas	July		August		September		October		November		December		Total		Total for year 1933	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Domestic	9,315	12,670	14,096	28,985	21,551	61,741	27,804	90,370	23,407	67,169	23,351	83,985	119,584	352,834	201,548	564,829
Sub-Bituminous	4,202	3,636	6,594	4,546	7,461	7,157	8,663	7,747	9,255	7,631	8,858	8,396	45,033	39,113	86,931	63,661
Bituminous	14,175	27,907	16,115	33,251	13,726	24,777	14,941	28,874	15,674	31,894	19,207	30,272	93,838	173,975	185,406	338,610
Total	27,693	44,213	36,805	66,782	42,738	93,675	51,408	126,991	48,336	106,694	51,416	122,653	258,455	565,922	473,885	967,100

THE MINES BRANCH

Amount of Mine Timber used during the year

DOMESTIC COAL FIELD

Areas	Round Timber linear ft.	Lumber B.M.	Ties, lineal feet	Lag- ging linear ft.	Slabs Cords	Cog- wood, cords
Ardley	58,576	.....	400	.....	.....	.....
Big Valley	9,700	.....	.....	.....	.....	.....
Brooks	23,700	.....	.....	.....	.....	.....
Camrose	235,152	.....	.....	.....	.....	.....
Carbon	361,734	.....	.....	.....	.....	.....
Castor	127,547	.....	.....	.....	.....	.....
Champion	83,998	.....	.....	.....	.....	.....
Drumheller	3,661,312	.....	71,259	.....	127	.....
Edmonton	2,126,233	27,500	39,300	.....	89	70
Gleichen	18,540	.....	.....	.....	.....	.....
Halcourt	20,580	.....	.....	.....	.....	.....
Lethbridge	1,454,711	1,633,597	28,894	.....	12	94
Magrath	7,352	.....	.....	.....	.....	.....
Milk River	11,975	.....	.....	.....	.....	.....
Pakowki	9,470	.....	.....	.....	.....	.....
Pembina	172,172	.....	16,562	7,822	.....	.....
Redcliff	105,736	.....	9,600	.....	.....	.....
Rochester	8,873	.....	.....	.....	.....	.....
Sheerness	28,910	.....	.....	.....	.....	.....
Stevenville	400	.....	.....	.....	.....	.....
Taber	38,860	1,385	.....	.....	.....	.....
Tofield	6,250	.....	.....	.....	.....	.....
Wetaskiwin	2,400	.....	.....	.....	.....	.....
No Area	350	.....	.....	.....	.....	.....
Total.....	8,574,531	1,662,482	165,615	7,822	228	164

SUB-BITUMINOUS

Coalspur	174,244	.....	.....	.....	.....	.....
Pekisko	4,979	.....	.....	.....	.....	.....
Pincher	11,995	.....	.....	2,660	.....	.....
Prairie Creek	247,806	.....	.....	3,468	1½	.....
Saunders	166,762	31,333	26,117	17,796	.....	.....
Total.....	605,786	31,333	26,117	23,924	1½	.....

BITUMINOUS

Cascade	224,636	.....	.....	.....	.....	.....
Crowsnest	1,773,011	470,254	.....	370,872	.....	.....
Mountain Park	650,050	.....	.....	.....	.....	.....
Nordegg	632,497	.....	.....	.....	.....	.....
Total.....	3,280,194	470,254	.....	370,872	.....	.....

Particulars of Lamps in the Domestic Coal Field:

	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
Portable Electric Lamps, Edison Cap Type.....	1,063	1,000	807	780	744	1,207	1,592	1,800	2,627	2,530	2,581	2,521	2,634
Portable Electric Lamps, Ceag Hand Type	35	35	35	43	43	43	43	43	43	43	43	43	43
Portable Electric Lamps, Wico Cap Type	500	500	500	569	560	275	.....	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Oldham Cap Type.....	.....	.....	.....	25	40	.....	.....	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Wolfe Cap Type.....	534	421	125	152	147	108	108	106	157	171	166	66	.....
Safety Lamps, Wolfe Flame Type	6	.....	3	6	8	4	3	.....	.....	.....	.....	174	242
Safety Lamps, Koehler Flame Type .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Total.....	2,128	1,956	1,470	1,575	1,542	1,594	1,703	1,906	2,784	2,701	2,807	2,761	2,879

Particulars of Lamps in the Sub-Bituminous Coal Field:

Portable Electric Lamps, Edison Cap Type .....	.....	54	78	62	41	120	120	140	161	184	387	350	357
Safety Lamps, Wolfe Flame Type .....	.....	.....	.....	.....	110	42	39	45	37	25	51	59	39
Total.....	.....	54	78	62	151	162	159	185	198	209	438	409	396

Particulars of Lamps in the Bituminous Coal Field:

Portable Electric Lamps, Edison Cap Type.....	2,612	2,849	3,545	3,485	2,952	3,024	3,378	3,510	3,310	3,458	4,458	3,005	2,922
Portable Electric Lamps, Wheat Electric Cap Type.....	.....	.....	.....	.....	.....	.....	.....	11	12	.....	.....	.....	.....
Portable Electric Lamps, Wolfe Electric Cap Type.....	71	71	.....	.....	.....	.....	.....	20	20	20	7	.....	.....
Portable Electric Lamps, General Electric Cap Type.....	.....	9	47	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portable Electric Lamps, Oldham Cap Type.....	1,301	1,218	1,186	894	703	554	633	468	363	345	333	337	318
Safety Lamps, Wolfe Flame Type .....	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	.....
Safety Lamps, Koehler Flame Type .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	3,984	4,147	4,778	4,379	3,655	3,578	4,019	4,019	3,705	3,823	4,818	3,842	3,240

THE MINES BRANCH

Quantity of Explosives used in pounds for blasting coal:

DOMESTIC COAL FIELD

Areas	Name of Explosive							Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	Stumping Powder	35 % Special Forcite	40 % Dynamite	
Ardley	10,526	140	.....	20	.....	.....	.....	10,686
Big Valley	780	.....	.....	.....	.....	.....	.....	780
Brooks	4,710	.....	.....	.....	.....	.....	.....	4,710
Camrose .....	.....	.....	.....	250	50	.....	.....	300
Carbon	24,949	.....	.....	.....	.....	.....	.....	24,949
Castor	8,343	.....	.....	.....	.....	.....	.....	8,343
Champion	11,055	.....	.....	.....	.....	.....	.....	11,055
Drumheller	163,672	3,760	.....	12,747	.....	.....	550	180,729
Edmonton	44,532	3,250	5	20,002	2,072	.....	.....	69,861
Gleichen	2,075	.....	.....	.....	.....	.....	.....	2,075
Halcourt	1,305	.....	.....	.....	250	.....	.....	1,555
Lethbridge	29,907	13,319	.....	70	.....	300	.....	43,596
Magrath	1,393	.....	.....	.....	350	.....	.....	1,743
Milk River	3,925	.....	.....	1,300	.....	.....	.....	5,225
Pakowki	8,484	.....	25	.....	.....	.....	120	993
Pembina .....	.....	6,620	.....	.....	78	.....	.....	6,698
Redcliff	2,600	.....	.....	1,900	.....	.....	.....	4,500
Sheerness	6,890	.....	.....	.....	.....	.....	.....	6,890
Taber	5,370	.....	.....	.....	100	.....	.....	5,470
Tofield	6,853	.....	.....	.....	500	.....	240	7,593
Wetaskiwin	150	.....	.....	.....	.....	.....	.....	150
Total.....	329,883	27,089	30	36,289	3,400	300	910	397,901

SUB-BITUMINOUS COAL FIELD

Areas	Name of Explosive						Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	35 % Special Forcite	Polar CXL-ITE No. 2	
Coalspur .....	.....	24,317	.....	.....	45,275	18,150	87,742
Pekisko .....	.....	41	.....	250	.....	.....	291
Pincher .....	.....	420	156	.....	.....	.....	576
Prairie Creek	5	52,305	.....	3,865	.....	.....	55,675
Saunders	5,754	.....	.....	6,543	.....	.....	12,297
Total.....	5,759	77,083	156	10,158	45,275	18,150	156,581

BITUMINOUS COAL FIELD

Areas	Name of Explosive				Total
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	
Cascade .....	.....	30,185	2,397	58	32,640
Crownest	50	12,765	4,099	600	17,514
Mountain Park .....	.....	.....	83,966	.....	83,966
Nordegg .....	.....	7,100	.....	.....	7,100
Total.....	50	50,050	90,462	658	141,220

Number of tons of coal produced per pound of Explosive used for
blasting coal:

DOMESTIC COAL FIELD

Areas	Number of tons mined	Number of pounds of explosive used	Tons of Coal mined per pound of explo- sive used
Ardley	20,099	10,686	1.88
Big Valley	4,407	780	5.65
Brooks	6,614	4,710	1.40
Camrose	37,454	300	124.85
Carbon	100,549	24,949	4.03
Castor	34,694	8,343	4.16
Champion	20,541	11,055	1.87
Drumheller	1,112,204	180,729	6.15
Edmonton	477,791	69,861	6.81
Gleichen	4,662	2,075	2.25
Halcourt	2,873	1,555	1.20
Lethbridge	335,166	43,596	7.69
Magrath	2,013	1,743	1.15
Milk River	5,295	5,225	1.01
Fakowki	2,602	993	2.62
Pembina	101,684	6,698	15.18
Rochester	1,348	.....	.....
Redcliff	32,267	4,500	7.17
Saenness	27,290	6,890	3.96
Steveville	100	.....	.....
Taber	15,813	5,470	2.89
Tofield	88,212	7,593	11.62
Wetaskiwin	170	150	1.13
Whitecourt	44	.....	.....
No Area	155	.....	.....
Total.....	2,434,047	397,901	6.12

SUB-BITUMINOUS

Coalspur	427,485	87,742	4.87
Pekisko	1,573	291	5.41
Pincher	1,983	576	3.44
Prairie Creek	84,765	55,675	1.52
Saunders	38,335	12,297	3.12
Total.....	554,141	156,581	3.54

BITUMINOUS

Cascade	124,607	32,640	3.82
Crowsnest	876,448	17,514	50.04
Mountain Park	584,430	83,966	6.96
Nordegg	141,111	7,100	19.87
Total.....	1,726,596	141,220	12.23

Estimated number of shots fired for Blasting Coal:

DOMESTIC COAL FIELD

Areas	Electric Deton- ator	Electric Squibs	Fuse	Squibs	Total
Ardley .....	.....	.....	10,618	.....	10,618
Big Valley .....	.....	.....	1,035	.....	1,035
Brooks .....	.....	.....	220	2,360	2,580
Camrose	132	.....	520	.....	652
Carbon .....	.....	.....	61,719	1,027	62,746
Castor .....	.....	.....	7,686	1,120	8,806
Champion .....	.....	.....	4,300	11,972	16,272
Drumheller	16,471	47,346	105,344	400	169,561
Edmonton	2,582	7,080	71,271	.....	80,933
Gleichen .....	.....	.....	2,095	600	2,695
Halcourt .....	.....	.....	2,020	.....	2,020
Lethbridge	18,465	22,000	576	17,862	58,903
Magrath .....	.....	.....	1,620	290	1,910
Milk River .....	.....	.....	3,650	1,800	5,450
Pakowki .....	.....	.....	355	1,110	1,465
Pembina	6,028	.....	128	.....	6,156
Redcliff	3,100	.....	.....	5,600	8,700
Sheerness .....	.....	.....	4,698	1,500	6,198
Taber .....	.....	100	922	6,686	7,708
Tofield .....	.....	.....	5,380	.....	5,380
Wetaskiwin .....	.....	.....	100	.....	100
Total.....	46,778	76,526	273,257	52,327	448,888

SUB-BITUMINOUS

Coalspur	42,657	.....	97	.....	42,754
Pekisko .....	.....	.....	725	.....	725
Pincher	927	.....	.....	.....	927
Prairie Creek	51,129	.....	.....	.....	51,129
Saunders .....	.....	.....	11,810	.....	11,810
Total.....	94,713	.....	12,632	.....	107,345

BITUMINOUS

Cascade	53,129	.....	.....	.....	53,129
Crowsnest	19,968	.....	495	.....	20,463
Mountain Park	81,727	.....	.....	.....	81,727
Nordegg	11,225	.....	.....	.....	11,225
Total.....	166,049	.....	495	.....	166,544

Number of miss-fire shots recorded in blasting coal in the Province:

DOMESTIC COAL FIELD

Areas	Electric Deton- ator	Electric Squibs	Fuse	Squibs	Total
Ardley .....	.....	.....	22	.....	22
Brooks .....	.....	.....	.....	1	1
Camrose	1	.....	11	.....	12
Carbon .....	.....	.....	16	2	18
Castor .....	.....	.....	6	13	19
Champion .....	.....	.....	15	4	19
Drumheller	2	15	86	2	105
Edmonton	19	2	105	.....	117
Gleichen .....	.....	.....	2	.....	2
Halcourt .....	.....	.....	13	.....	13
Lethbridge	2	4	1	4	11
Magrath .....	.....	.....	23	.....	23
Milk River .....	.....	.....	1	.....	1
Pakowki .....	.....	.....	2	.....	2
Rochester .....	.....	.....	1	.....	1
Redcliff .....	.....	.....	.....	18	18
Sheerness .....	.....	.....	16	3	19
Taber .....	.....	.....	.....	4	4
Tofield .....	.....	.....	17	.....	17
Wetaskiwin .....	.....	.....	4	.....	4
Total.....	15	21	341	51	428

SUB-BITUMINOUS

Coalspur	1	.....	.....	.....	1
Prairie Creek	2	.....	.....	.....	2
Saunders .....	.....	.....	3	.....	3
Total.....	3	.....	3	.....	6

BITUMINOUS

Crowsnest	4	.....	.....	.....	4
Mountain Park	13	.....	.....	.....	13
Total.....	17	.....	.....	.....	17

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province:

Areas	Name of Explosive							Total		
	Pellets	Polar Monobel No. 4	Polar Monobel No. 6	Polar Monobel No. 12	Polar CXL-ITE No. 2	Stumping Powder	40% Dynamite		60% Dynamite	35% Special Polar Forcite
Ardley .....	.....	80	.....	.....	.....	.....	5	.....	.....	85
Camrose .....	.....	.....	.....	200	.....	.....	.....	.....	.....	200
Carbon .....	.....	125	.....	.....	.....	.....	100	.....	.....	225
Cascade .....	.....	.....	303	.....	1,035	.....	.....	.....	.....	1,338
Castor .....	.....	.....	.....	.....	.....	30	24	.....	.....	54
Champion .....	.....	50	.....	.....	.....	.....	510	.....	.....	685
Coalspur .....	.....	175	.....	.....	183	.....	.....	22,825	14,250	37,433
Crownsnest .....	.....	.....	.....	.....	5,424	.....	.....	240	.....	5,424
Drumheller	2,100	2,495	.....	3,139	421	.....	3,300	.....	.....	11,695
Edmonton .....	.....	.....	.....	124	.....	740	.....	25	.....	889
Gleichen .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25
Halcourt .....	.....	.....	.....	.....	.....	465	.....	.....	.....	465
Lethbridge	100	25	.....	.....	.....	.....	475	.....	.....	600
Magrath .....	.....	.....	.....	.....	20	.....	400	.....	.....	420
Mountain Park .....	.....	.....	5,460	.....	25,321	.....	.....	.....	58,000	88,781
Nordegg .....	.....	.....	.....	.....	275	.....	.....	.....	.....	275
Pekisko .....	.....	4	.....	9	.....	.....	.....	.....	.....	13
Pincher .....	.....	134	.....	.....	.....	.....	.....	.....	.....	134
Prairie Creek .....	.....	.....	.....	.....	1,411	.....	.....	.....	.....	1,411
Rochester .....	.....	.....	.....	.....	.....	14	.....	.....	.....	14
Saunders .....	.....	.....	.....	245	.....	.....	.....	.....	.....	245
Sheerness	10	.....	.....	.....	.....	.....	2	.....	.....	12
Taber	164	50	.....	.....	.....	.....	50	.....	.....	264
Total	2,499	3,138	5,763	3,717	34,090	1,251	4,889	23,090	72,250	150,687

Estimated number of shots fired for blasting rock in Coal-mines
in the Province:

Areas	Electric Deton- ators	Fuse	Squibs	Total
Ardley .....	.....	160	.....	160
Camrose .....	.....	250	.....	250
Carbon .....	.....	280	.....	280
Cascade	4,000	.....	.....	4,000
Castor .....	.....	81	.....	81
Champion	260	650	297	1,207
Coalspur	3,997	5,485	.....	9,482
Crowsnest	5,756	10	.....	5,766
Drumheller	6,120	12,488	.....	18,608
Edmonton	1,025	596	.....	1,621
Gleichen .....	.....	35	.....	35
Halcourt .....	.....	985	.....	985
Lethbridge	62	520	100	682
Magrath .....	.....	315	.....	315
Mountain Park	34,570	.....	.....	34,570
Nordegg	290	.....	.....	290
Pekisko .....	.....	52	.....	52
Pincher	166	.....	.....	166
Prairie Creek	1,699	.....	.....	1,699
Rochester .....	.....	28	.....	28
Saunders .....	.....	420	.....	420
Sheerness .....	.....	5	3	8
Taber .....	.....	452	.....	452
Total.....	57,945	22,812	400	81,157

Number of miss-fire shots recorded in blasting rock in Coal-mines
in the Province:

Camrose .....	.....	2	.....	2
Champion .....	.....	.....	2	2
Coalspur	2	.....	.....	2
Crowsnest	2	.....	.....	2
Drumheller .....	.....	16	.....	16
Magrath .....	.....	3	.....	3
Mountain Park	7	.....	.....	7
Rochester .....	.....	1	.....	1
Sheerness .....	.....	1	.....	1
Total.....	11	23	2	36

ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 73 different mines in 1933. A summary of these returns regarding the horse-power of electrical apparatus in use is given below:

Areas	No. of Mines using Electricity	Horse-power of Electrical Apparatus in use		Total Horse-power
		Above Ground	Below Ground	
Ardley	1	.....	30	30
Big Valley	1	25	35	60
Camrose	1	12 ½	5	17 ½
Carbon	6	151 ½	322	473 ½
Cascade	1	705	175	880
Coalspur	4	756	310	1,066
Crowsnest	6	11,067 ½	2,110	13,177 ½
Drumheller	25	3,374	4,684 ½	8,058 ½
Edmonton	7	657 ½	856 ½	1,514
Gleichen	1	.....	5	5
Lethbridge	7	1,069 ½	694	1,763 ½
Mountain Park	3	1,101	1,515	2,616
Nordegg	1	1,200 ½	80	1,280 ½
Pembina	2	182 ½	401	583 ½
Prairie Creek	1	87 ½	190	277 ½
Redcliff	2	130	90	220
Saunders	2	112 ½	173	285 ½
Taber	2	30	70	100
Total.....	73	20,662 ½	11,746	32,408 ½

COAL-CUTTING MACHINERY

Areas	No. of Machines operated by		Tons of Coal mined by	
	Electricity	Compressed Air	Electricity	Compressed Air
Ardley	1	2	11,211	2,619
Big Valley	1	.....	1,030	.....
Carbon	7	.....	85,663	.....
Castor .....	.....	1	.....	1,600
Coalspur	1	10	478	23,713
Crowsnest .....	.....	148*	.....	129,382
Drumheller	89	1	1,046,818	25
Edmonton	15	1	286,945	150
Gleichen .....	.....	1	.....	2,544
Lethbridge	14	92	74,042	220,240
Pembina	4	.....	50,706	.....
Prairie Creek	3	.....	15,260	.....
Redcliff	3	.....	31,744	.....
Saunders	3	10	7,193	31,142
Taber	2	.....	6,754	.....
Total.....	143	266	1,617,824	411,415

*Compressed air operated picks.

ACCIDENTS

Summary table showing Accidents occurring in Mines during
1906 to 1933 inclusive:

Year	Output	Accidents			Tons of Coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	125,909	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61*	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,656
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209†	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,708
1933	4,714,784	6	60	109	785,797	78,580	43,255
Total.....	132,268,365	806	1,434	1,583	164,104	92,237	83,555

*Including thirty-one deaths caused by the Bellevue explosion.

†Including one hundred and eighty-nine deaths caused by the Hillcrest explosion.

Accidents during 1933, classified according to the Coal Field in
which they occurred:

Domestic	2,434,047	2	37	79	1,217,024	65,785	30,811
Sub-Bituminous	554,141	2	8	14	277,071	69,268	39,582
Bituminous	1,726,596	2	15	16	863,298	115,106	107,912

THE MINES BRANCH

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1933:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,338,604	7,570	20	4.31	2.64	51	10.39	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.55	6.84	77	12.52	8.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	29	4.20	2.99	53	7.31	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,547	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.58	5.47	103	19.79	14.95
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926*	6,508,908	8,763	39	5.99	4.09	67	10.39	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,386,750	9,016	26	3.75	2.88	76	10.36	8.43	115	16.30	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	3.82	2.96	67	9.65	7.21	122	16.53	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	4.34	3.24	69	9.68	7.21	98	13.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.39	7.76	97	17.50	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.38	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	17.72	12.25	168	34.51	21.43
1933	†4,714,784	8,042	6	1.27	.75	60	12.73	7.46	109	20.39	13.55	175	37.12	21.76

*Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co., Ltd.

†1933 Output does not include coal produced by farmers under permit.

Number of tons produced per accident:

DOMESTIC COAL FIELD

Area	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Ardley	20,099	42	.....	.....	20,099	20,099
Big Valley	4,407	43	.....	.....	.....	.....
Brooks	6,614	12	.....	.....	.....	.....
Camrose	37,454	67	.....	.....	.....	.....
Carbon	100,549	201	.....	100,549	33,516	25,137
Castor	34,694	83	.....	.....	17,347	17,347
Champion	20,541	62	.....	.....	.....	.....
Drumheller	1,112,204	1,764	1,112,204	58,537	48,357	25,865
Edmonton	477,791	742	.....	43,436	13,272	10,166
Gleichen	4,662	13	.....	.....	.....	.....
Halcourt	2,873	14	.....	.....	.....	.....
Lethbridge	335,166	1,055	.....	83,792	55,861	33,517
Magrath	2,013	6	.....	.....	.....	.....
Milk River	5,295	15	.....	.....	.....	.....
Pakowki	2,602	11	.....	.....	.....	.....
Pembina	101,684	106	.....	.....	33,894	33,894
Redcliff	32,267	49	32,267	.....	16,134	10,756
Rochester	1,348	10	.....	.....	674	674
Sheerness	27,290	62	.....	27,290	.....	27,290
Steveville	100	3	.....	.....	.....	.....
Taber	15,813	44	.....	15,813	.....	15,813
Tofield	88,212	69	.....	.....	.....	.....
Wetaskiwin	170	2	.....	.....	.....	.....
Whitecourt	44	2	.....	.....	.....	.....
No Area	155	3	.....	.....	.....	.....
Total.....	2,434,047	4,480	1,217,024	65,785	30,811	20,628

SUB-BITUMINOUS

Coalspur	427,485	430	427,485	71,248	106,871	38,862
Pekisko	1,573	7	.....	.....	.....	.....
Pincher	1,983	9	.....	.....	.....	.....
Prairie Creek	84,765	142	84,765	42,383	8,477	6,520
Saunders	38,335	98	.....	.....	.....	.....
Total.....	554,141	686	277,071	69,268	39,582	13,089

BITUMINOUS

Cascade	124,607	297	.....	124,607	41,536	31,152
Crownsnest	876,448	1,615	.....	97,383	219,112	67,419
Mountain Park	584,430	722	292,215	292,215	64,936	44,956
Nordegg	141,111	242	.....	47,037	.....	47,037
Total.....	1,726,596	2,876	292,215	115,106	107,912	52,321

SUMMARY

Domestic	2,434,047	4,480	1,217,024	65,785	30,811	20,628
Sub-Bituminous	554,141	686	277,071	69,268	39,582	13,089
Bituminous	1,726,596	2,876	292,215	115,106	107,912	52,321
Total.....	4,714,784	8,042	785,797	78,580	43,255	26,942

Classification of Accidents according to outputs of mines which produced during the year 1933:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	Over 200,000 tons	Total
Fatal .....	...	...	...	8	1	1	...	1	6
Serious .....	...	5	2	17	19	9	4	3	60
Slight	4	10	3	27	42	11	10	2	109
Total.....	4	15	5	47	62	21	14	6	175

Tons of coal produced per accident

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	Over 200,000 tons	Total
Fatal .....	...	...	...	283,097	1,319,958	1,094,584	.....	506,997	785,797
Serious .....	...	30,541	36,629	49,958	69,471	121,620	162,614	168,932	78,579
Slight	16,858	15,271	24,419	31,455	31,428	99,508	65,045	233,498	43,255
Total.....	16,858	10,180	14,651	18,070	21,289	52,123	46,461	84,499	26,942

FATAL ACCIDENTS DURING THE YEAR 1933

James Watt, a surface labourer, aged 49 years, on February 28th, at the mine operated by the Jasper Coal Company, Limited, at Drinnan, caused through his falling against the side of tippie. He was working on the tippie pushing coal down a chute, using a stick to poke the coal, when he slipped, the end of the stick poking him in the stomach causing him to fall. His head struck the side of the chute, causing concussion and partial paralysis, from which he died in the hospital on March 2nd, 1933.

Les Olson, a box car brakeman, aged 27 years, on March 1st, at the mine operated by the Cadomin Coal Company, Limited, at Cadomin, caused through his falling between railroad cars. He, along with another man, was lowering railroad cars from the weigh scale. He was on the third car, and in applying the brake slipped and fell between the second and the third cars, the wheels of the latter passing over his legs, badly crushing same and necessitating amputation. He died about six hours after the operation from shock.

Joseph Sabotin, track boss, aged 46 years, on April 1st, at the mine operated by the Luscar Collieries, Limited, at Luscar, caused through his being crushed by a trip of cars. He, along with the tippie boss, was loading and hauling cars of gravel to be sent into the mine using a tugger hoist for hauling. He was riding on the first car for the purpose of uncoupling the rope, and apparently in a moment of forgetfulness he stepped off in a narrow place and was jammed between the cars and the side of the snowshed. Crushed pelvis and internal injuries, from the effects of which he died five hours later.

George Cleet, a driver, aged 38 years, on August 18th, in the mine operated by the Western Gem Coal Company, Limited, Drumheller, caused through being crushed by cars. He was acting as driver boss, and had stepped off a trip of loaded cars being hauled from the inside workings to the shaft bottom, when the haulage chain broke. He stepped out of a manhole to warn the drivers below and was caught by the cars and crushed. Fractured pelvis and internal injuries, from the effects of which he died five hours later.

Peter Majewski, a miner, aged 36 years, on November 21st, in the mine operated by The Foothills Collieries, Limited, at Foothills, caused by a fall of coal. He was working at the face of No. 18 Pillar nailing up a support for coal chute when a large piece of coal fell from the face, crushing him against a timber. Body crushed, causing instant death.

Joe Zaleckie (or Wojceik Gancarz), a miner, aged 39 years, on November 21st, in the mine operated by John T. Oliphant, near Medicine Hat, caused by a fall of rock. He was working at the face of No. 9 Room off the main entry when a fall of rock dropped onto his shoulders and legs. Head and shoulders crushed, cuts on face, and left leg fractured. He died from shock five hours later, caused by the injuries.

In addition to the above fatal accidents, there occurred an accident which caused the death of Ralph Lightizer, farmer, aged 44 years, on November 9th, while illegally mining coal in a cut-bank in Police Coulee on Section 31, Township 1, Range 8, West of the 4th Meridian, near Pinhorn. He was crushed by the bank which he was undermining.

Accidents as they occurred by months during the year 1933:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January .....	.....	2	2	4	.....	4	13	17	21
February	1	1	1	3	.....	5	10	15	18
March	1	1	.....	2	.....	2	8	10	12
April	1	1	1	3	.....	3	5	8	11
May .....	.....	.....	.....	.....	.....	1	1	1	1
June .....	.....	.....	1	1	.....	2	6	8	9
July .....	.....	.....	3	3	.....	2	3	5	8
August .....	.....	.....	2	2	1	3	5	9	11
September .....	.....	.....	1	1	.....	8	5	13	14
October .....	.....	2	1	3	.....	10	10	20	23
November .....	.....	.....	4	4	2	9	10	21	25
December .....	.....	.....	3	3	.....	5	14	19	22
Total.....	3	7	19	29	3	53	90	146	175

Accidents occurring in the Province above and under ground during the year 1933:

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Haulage	1	1	.....	2	1	9	23	33	35
Falls of Rock .....	.....	.....	.....	.....	1	14	23	38	38
Falls of Coal .....	.....	.....	.....	.....	1	14	9	24	24
Shot-firing .....	.....	.....	.....	.....	.....	1	.....	1	1
Coal-cutting Machinery .....	.....	.....	.....	.....	.....	8	1	9	9
Ignition of Gas.....	.....	.....	.....	.....	.....	.....	4	4	4
Loading Coal .....	.....	1	5	6	.....	1	11	12	18
Loading Rock .....	.....	.....	.....	.....	.....	.....	1	1	1
Timbering .....	.....	.....	.....	.....	.....	1	4	5	5
Shaft .....	.....	.....	1	1	.....	.....	2	2	3
R. R. Cars	1	1	3	5	.....	.....	.....	.....	5
Tippie Machinery .....	.....	.....	1	1	.....	.....	.....	.....	1
Miscellaneous	1	4	9	14	.....	5	12	17	31
Total.....	3	7	19	29	3	53	90	146	175

Accidents occurring in the Province above and under ground for the year 1933, classified according to the areas in which they occurred:

DOMESTIC

Area	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Ardley	1	1	1
Carbon	1	1	.....	1	2	3	4
Castor	2	2	2
Drumheller	2	2	4	1	17	21	39	43
Edmonton	3	3	.....	11	33	44	47
Lethbridge	2	2	.....	4	4	8	10
Pembina	2	2	.....	.....	1	1	3
Redcliff	1	1	1	.....	1	2	3
Rochester	2	2	.....	.....	1	1	3
Sheerness	1	.....	1	.....	.....	.....	.....	1
Taber	1	.....	1	1
Total.....	3	13	16	2	34	66	102	118

SUB-BITUMINOUS

Coalspur .....	.....	1	1	2	1	5	3	9	11
Prairie Creek	1	.....	3	4	.....	2	7	9	13
Total.....	1	1	4	6	1	7	10	18	24

BITUMINOUS

Cascade .....	.....	.....	.....	.....	.....	1	3	4	4
Crowsnest	9	4	13	13
Mountain Park	2	1	2	5	1	7	8	13
Nordegg	2	2	1	1	3
Total.....	2	3	2	7	12	14	26	33

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	8	13	16	2	34	66	102	118
Total.....								
Ignition of gas by open light.....
Loading coal, truck by coal from chute while loading sleigh.....
Loading coal, piece fell on foot.....
Loading coal, slipped and fell on shovel handle.....
Loading coal in box car, slipped and strained his back.....
Loading coal in wagon, slipped and fell.....
Loading coal, hand jammed between edge of car and coal.....
Loading coal, slipped and fell against car.....
Loading rock, piece fell on foot.....
Loading rock, piece fell on foot.....
Timbering through a cave, rock slipped on to his leg.....
Timbering, slipped and fell.....
Shaft, fingers caught between pulley and rope.....
Shaft, slipped while repairing signal wire.....
Shaft, walking down stairway, slipped and fell.....
Struck by flying coal from pick point.....
Struck by pick.....
Walking down the slope, slipped and fell.....
R. R. cars, climbing into R.R. car, slipped and fell.....
R. R. cars, ratchet slipped when closing door on gondola car.....
Caging, hand scratched when lowering catch on cage.....
Tipple machinery, foot caught under shaker wheel.....
Miscellaneous, using electric drill, bone broken in left hand.....
Miscellaneous, removing gear from machine, gear fell on leg.....
Miscellaneous, foot crushed by car on tippie.....
Miscellaneous, wheeling ashes, slipped and fell.....
Miscellaneous, struck by timber when unloading same.....
Miscellaneous, carrying rails, thumb jammed.....
Miscellaneous, putting sheet iron in chute, scaffold broke.....
Miscellaneous, slipped and fell on tracks.....
Miscellaneous, using hand drill, handle slipped.....
Miscellaneous, spragging cars on tippie, finger caught between sprag and wheel.....
Total.....	8	13	16	2	34	66	102	118

SUB-BITUMINOUS

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, leg caught between bumpers, riding between cars.....	1	.....	1	1
Rope Haulage, while coupling cars wheel ran over foot.....	1	1	1
Rope Haulage, spragging cars, coal fell off car on to foot.....	1	1	1
Manual Haulage, placing sprag jammed between car and timber.....	1	.....	1	1
Manual Haulage, derailed car, struck by timber.....	1	1	1
Fall of rock on slope.....	1
Fall of coal at face of room.....	1	.....	1	1
Fall of coal in longwall face.....	1	.....	1	1
Fall of coal in pillar workings.....	1	.....	1	1
Loading coal, hand jammed between timber and coal.....	3
Loading coal, hand jammed between lumps of coal.....	2
Loading coal on to conveyor, hand jammed between lumps of coal.....	1
Loading coal in box car, lumps dropped from chute on to foot.....	1	1	.....	.....	.....	.....	1
Loading coal, taking down coal, slipped and fell.....	1	1	.....	.....	.....	.....	1
Loading coal, slipped and fell in chute.....	1	.....	1	1
Walking down slope, slipped and fell.....	1
Pushing coal in chute on tippie, slipped and fell against end of pusher.....	1	.....	.....	1	.....	.....	.....	.....	1
R. R. cars, slipped and fell off.....	1	1	.....	.....	.....	.....	1
Miscellaneous, jumped off truck.....	1	1	.....	.....	.....	.....	1
Miscellaneous, slipped and fell while carrying wooden chute.....	1	.....	1	.....	.....	.....	.....	1
Total.....	1	1	4	6	1	7	10	18	24

BITUMINOUS

Rope Haulage, arm jammed between top of car and roof.....	.....	.....	.....	.....	.....	1	.....	1	1
Rope Haulage, leg jammed between car and side of slope.....	.....	.....	.....	.....	.....	1	.....	1	1
Rope Haulage, lowering car to McGinty rope, caught between car and timber.....	.....	.....	.....	.....	.....	1	.....	1	1
Rope Haulage, jammed between cars and side of snowshed.....	1	.....	.....	1	.....	.....	.....	.....	1
Manual Haulage, slipped while pushing car.....	.....	.....	.....	.....	.....	1	.....	1	1
Electric trolley locomotive haulage, jammed between locomotive and car.....	.....	1	.....	1	.....	.....	.....	.....	1
Fall of rock on entry.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Fall of rock at face of room.....	.....	.....	.....	.....	.....	.....	1	1	1
Fall of rock in room.....	.....	.....	.....	.....	.....	.....	.....	.....	3
Fall of rock in room.....	.....	.....	.....	.....	.....	1	.....	1	1

[illegible]

[illegible]

SUB-BITUMINOUS

Foothills Collieries, Ltd., The	1	.....	1	.....	1	.....	2	.....	3	4
Lakeside Coals, Limited .....	.....	.....	.....	.....	.....	.....	1	.....	1	1
McLeod River Hard Coal Co., Ltd. ....	.....	.....	.....	.....	.....	.....	1	.....	1	1
Bryan Coal Co., Ltd. ....	.....	.....	.....	.....	.....	.....	1	.....	4	5
Hinton Collieries, Ltd. ....	.....	.....	.....	.....	.....	.....	2	.....	3	8
Jasper Coal Co., Ltd. ....	.....	.....	.....	.....	.....	.....	1	.....	2	.....
Prairie Creek	1	.....	.....	.....	.....	.....	2	.....	6	.....
Total.....	1	.....	.....	.....	.....	.....	6	.....	18	24

BITUMINOUS

[illegible]

SUMMARY

Domestic .....	.....	3	13	16	2	34	66	118
Sub-Bituminous .....	.....	1	4	6	1	7	10	24
Bituminous .....	.....	2	2	7	.....	12	14	33
Total	Total	3	19	29	3	53	90	175

LIST OF PROSECUTIONS INSTITUTED DURING THE YEAR 1933, UNDER THE COAL-MINES REGULATION ACT.

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Sovereign Coal Mining Co., Ltd.....	Miner	Did work at working face as a coal-miner without holding a miner's certificate contrary to The Coal-mines Regulation Act	Convicted	Fined \$20.00	\$2.75
Sovereign Coal Mining Co., Ltd.....	Miner	Obtained employment as a miner representing himself as holder of a miner's certificate.....	Convicted	Fined \$5.00	2.75
Sovereign Coal Mining Co., Ltd.....	Miner	Did fail to give his miner's certificate to owner, agent or manager when starting work.....	Convicted	Fined \$5.00	1.75
McGillivray Creek Coal & Coke Co., Ltd.	Miner	He did have in his possession a lucifer match for striking a light while in the mine at Coleman.....	Convicted	Fined \$5.00 or 30 days in jail	4.50
James Bateman and [F. Blasco].....	Owner	Operated a mine without having an overman in charge of underground workings	Convicted	One month to pay costs	3.25
[James Bateman] and F. Blasco....	Owner	Operated a mine without having an overman in charge of underground workings	Convicted	One month to pay costs	3.25
Lakeside Coals, Ltd., Robb.....	Miner	Did misconduct himself by striking with his fist, Phillip Sembal, a miner in the employ of Lakeside Coals, Ltd., in the washhouse of the said mine	Convicted	Fined \$20.00	20.30

Number of Mines opened, abandoned, and re-opened according to Areas and Kind of Coal, during the year:

Area	Number	Character of Coal	No. of Mines in operation Dec. 31, '33	Mines opened during year	Mines re-opened during year	Mines closed but not abandoned	Mines abandoned during year	Name and Address of District Inspector of Mines
Ardley	1	Domestic	14	2	1	1	1	B. Nugent, 4 Camrose, Alta. Tele. No. 72.
Big Valley	2	Domestic	6	...	1	...	1	
Camrose	5	Domestic	3	1	2	...	1	
Carbon	6	Domestic	18	...	...	1	1
Castor	8	Domestic	38	6	2	3	4	
Edmonton	15	Domestic	34	5	...	3	1	
Pakan	27	Domestic .....	...	...	...	1	...
Tofield	42	Domestic	3	...	...	1	...
Wetaskiwin	45	Domestic	1	...	...	...	...
Brocks	3	Domestic	4	...	1	J. B. deHart, 1 Lethbridge, Alta. Tele. No. 3325.
Champion	9	Domestic	11	4	...	...	3
Lethbridge	20	Domestic	20	2	...	1	...	
Magrath	21	Domestic	3	...	1	2	...	
Milk River	22	Domestic	3	...	...	...	...
Pakowski	28	Domestic	7	...	...	...	...
Pekisko	30	Sub-Bituminous	4	...	...	1	...
Redcliff	34	Domestic	2	...	...	...	...
Taber	41	Domestic	13	...	...	1	3
Coalspur	11	Sub-Bituminous	6	1	...	Thos. Horne, 1 Edson, Alta., Tele. 35, Residence
Mountain Park	24	Bituminous	3	...	...	1	...
Pembina	31	Domestic	5	1	...	...	...
Prairie Creek	33	Sub-Bituminous	2	...	...	...	...
Crowsnest	12	Bituminous	8	2	...	Moses Johnson, Blairmore, Alta. Tele. No. 70.
Drumheller (Wayne)	14	Domestic	6	1	...	W. G. Heeley, 1 Calgary, Alta. Tele. No. M5096.
Cascade	7	Bituminous	2	...	...	...	...
Morley	23	Sub-Bituminous .....	...	...	...	...	...
Nordeggy	25	Bituminous	1	...	...	...	...
Pincher	32	Sub-Bituminous	4	1	...	1	2	
No Area .....	...	Domestic .....	...	1	...	1	1
Saunders	36	Sub-Bituminous	2	...	1	2	...	
Drumheller	14	Domestic	27	4	2	4	2	A. B. Hunter, Drumheller, Alta. Tele. No. 413.
Gleichen	17	Domestic	4	1	...	...	...
Sheerness	38	Domestic	24	5	...	...	2
Steveville	40	Domestic .....	...	...	...	1	...
Halcourt	18	Domestic	8	4	3	J. A. Richards, Edmonton, Alta. Tele. No. 916415.
Rochester	35	Domestic	3	2	...	...	...
Whitcourt	46	Domestic .....	...	...	...	1	...
No Area	1	Domestic	1	1	...	...	...
Total.....			295	40	11	30	28	

In addition to the above, Mr. James A. Richards, 11009 89th Ave., Edmonton, is acting in the capacity of General District Inspector of Mines, Telephone No. 32662.

BOARD OF EXAMINERS

The constitution of the Board during the year 1933 was as follows:

As representing:

- (a) The Mine Inspectorate:
Andrew A. Millar, Chief Inspector of Mines.
- (b) Managers:
Norman Fraser, Robert Livingstone.
- (c) Working Miners:
William Lammie, Evan Morgan.
Secretary:
James A. Richards.

Examinations were held during the year as follows: For third class at the following centres: Drumheller, May 9, 10, 11, 12, 13, 15 and 16; Edmonton, May 9, 10, 11 and 12; Lethbridge, May 9, 10, 11, 12, 13 and 15; Blairmore, May 9 and 10; Cadomin, May 9; Canmore, May 9 and 10.

For first and second class on June 7, 8 and 9, at Blairmore, Cadomin, Drumheller, Edmonton and Lethbridge.

For mine surveyor on June 9 at Edmonton, Drumheller and Blairmore.

Thirteen candidates presented themselves for examination for first class certificates, of whom one was successful. Thirty-one candidates presented themselves for examination for second class certificates, of whom nine were successful. Eighty-three candidates presented themselves for examination for third class certificates, of whom forty-four were successful. Three candidates presented themselves for examination for mine surveyor's certificates, of whom two were successful.

List of Names of Holders of First Class Certificates Issued by the Government of the Province of Alberta to December 31, 1933:

Name	Address	Cert. No.	Date of Issue
Addie, W.	Estevan, Sask.	19	25- 8-03
Aspinall, Francis	Vancouver	22	1- 3-09
Ashburner, Edward	Medicine Hat	40	9-12-10
Allen, Peter	Wayne	72	5-11-12
Bradshaw, G. W.	Nanaimo, B.C.	61	16- 5-05
Broome, G. H.	New Zealand	46	28-11-04
Brown, J.	Calgary	18	24- 8-03
Baxter, Andrew W.	Calgary	47	22-12-10
Barnes, Arthur W.	Montana	74	7-11-12
Black, Ernest D.	England	84	29- 7-13
Brydon, Andrew D.	England	4	18- 9-14
Blake, Henry	Bellevue	25	27- 7-17
Brown, Hugh R.	Wayne	26	28- 6-18
Bilson, George H.	New Zealand	27	26- 6-18
Brown, R. J.	Montana	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
Blair, John	Wayne	55	24- 7-24
Collins, W. F.	Blairmore	24	31-10-03
Coulthard, R. W.	Toronto	8	19- 3-05
Church, J. A. H.	Nova Scotia	11	23- 1-08
Clyne, James	Edmonton	69	18- 3-12
Crowder, Harry	Drumheller	5	18- 9-14
Cranston, Michael	Drumheller	35	2- 7-19
Coupland, Edward	Cadomin	56	24- 7-24
Crawford, Alexander	Edmonton	61	24- 7-25
Crawford, John	Edmonton	65	26- 7-26
Chavignaud, Louis G.	Hinton	71	6- 8-27
Drinnan, R. G.	Edmonton	29	30- 1-04
Dickson, G. H.	Ontario	3	31- 5-06

List of Names of Holders of First Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Dunn, A. C.	Edmonton	18	13- 1-09
Darbyshire, J.	Edmonton (Deceased)	35	3-12-09
Davis, David	Coleman	62	28-11-11
Duggan, William H.	Foothills	85	29- 7-13
DeHart, Joseph B.	Lethbridge	86	29- 7-13
Dennis, Fred W.	England	12	28-10-15
Davidson, David	Alexo	15	12- 8-16
Donaldson, Chris. S.	Lethbridge	20	17- 7-17
Davies, Thomas O.	Hillcrest	22	17- 7-17
D'Altroy, Arthur C.	B.C.	53	17- 8-23
Davidson, J. M.	Coalhurst	75	23- 7-29
Dutton, Joseph A.	Mountain Park	4	25- 7-32
Dalziel, Robert	Beverly	8	29- 7-33
Emmerson, J.	Frank	50	13- 4-05
Emmerson, C.	Bellevue	49	9- 1-05
Elliott, D.	Blairmore	20	13-10-03
Ellis, W.	Champion	15	8- 1-09
Evans, D.	Vancouver, B.C. (Deceased)	1	15-10-98
Emerson, J.	Bellevue (duplicate)	41	25- 8-19
Flint, W. G.	Edmonton	56	13- 4-05
Finlayson, J.	Dinant	30	10- 2-04
Fraser, Norman	Edmonton	1	21-12-05
Fraser, G. L.	British Columbia (Deceased)	1	31- 5-06
Ferguson, C. J.	Edmonton	23	17- 7-17
Foster, William	Wabamun	40	12- 8-19
France, Thomas	Nordegg	44	8-10-19
Green, R.	Calgary	58	26- 4-05
Graham, C.	Prince Rupert, B.C.	7	27- 2-06
Givin, Homer H.	Virginia, U.S.A.	57	23-11-11
Gray, David	Washington, U.S.A.	65	4-12-11
Guernsey, Forbes W.	Vancouver, B.C.	80	18-12-12
Gotheridge, William T.	Round Hill	54	16- 7-24
Henrietta, Chas. M.	Byseville, Ohio	26	24-11-03
Hargreaves, James	Victoria, B.C.	9	25- 6-01
Hamilton, W. L.	Winnipeg, Man. (Deceased)	4	2-12-98
Hardie, W. D. L.	Lethbridge	2	15-10-98
Holden, James	Drumheller (Deceased) ..	14	7- 1-09
Hamilton, Robert	Three Hills	4	3- 1-07
Horne, Thomas	Edson	6	26-12-07
Hart, John	Edmonton	23	23- 3-09
Horne, Robert	Blairmore	12	7- 1-09
Howells, Nathaniel	Wayne	64	4-12-11
Hunter, A. B.	Drumheller	14	12- 8-16
Higgins, Alexander	Calgary	19	7- 7-17
Heeley, William G.	Calgary	36	3- 7-19
Hetherington, W. B.	B.C.	38	9- 7-19
Hastings, A. P.	Banff	47	26- 7-20
Howden, A. B.	Scotland	50	1- 8-21
Hamilton, Alan	Drumheller	52	17- 7-23
Hall, William E. G.	Cadomin	58	20- 7-25
Hibbert, W. J.	Coleman	79	10- 9-30
Hnatyshyn, A. C.	Luscar	6	23- 3-33
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Jones, Samuel A.	Nanaimo, B.C.	57	26- 4-05
John, John	Mountain Park (Deceased)	44	29- 4-04

List of Names of Holders of First Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Jones, David	Edmonton	67	27-11-11
Johnson, Moses	Blairmore	79	14-11-12
Jordan, William	Drumheller	11	9- 9-15
Jones, Griffith	Nacmine (Interchange)....	63	21-10-25
Kerr, Alex.	Tonkin, B.C.	27	18-12-03
Knox, Thomas K.	Coal Creek, B.C.	28	30-11-09
Kellock, George	Coleman	59	23-11-11
Kellock, James	Coleman	76	8- 8-30
Little, John	Coalfields	5	2-12-98
Livingstone, Robert	Lethbridge	16	.....
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Little, William F.	Canmore	4	29-12-05
Lee, Robert J.	Estevan, Sask.	56	23-11-11
Leblanc, Emile	Taber	6	18- 9-14
Lindoe, Luke	Coleman	77	8- 8-30
Morris, Cyrus	Frank	12	13- 2-02
Manley, Henry L.	Fernie, B.C.	41	3- 6-04
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Marsh, John	Lethbridge	6	1- 2-06
Moore, Samuel M.	Bankhead	26	27-11-09
Maxwell, William	Nova Scotia	27	29-11-09
Millar, Andrew A.	Edmonton	54	23-11-11
Musgrove, William	Canmore	76	11-11-12
Marshall, John W.	Evansburg	78	13-11-12
Mather, Thomas	Luscar	81	20- 7-13
Milne, Morgan C.	Virginia, U.S.A.	83	14- 7-13
Morgan, Owen	Saunders	51	17- 8-23
Morrison, Edward	Fernie, B.C. (Interchange)	62	28- 9-25
Morris, William	Foothills	1	26- 7-31
Millar, David	Mercoal	2	25- 8-31
Morgan, Evan H.	Wayne	3	27- 9-31
McEvoy, James	Toronto, Ont.	17	1- 8-03
McLean, Donald	Coalmont, B.C.	62	22- 5-05
McMillan, J. H.	Cadomin	17	12- 1-09
McLenhan, J. A.	Lovett	39	13- 1-10
McDonald, John R.	Edmonton (Deceased) ...	29	30-11-09
Macaulay, D. A.	Drumheller	42	9-12-10
McCulloch, James	Vancouver, B.C.	41	17-12-10
McDonald, Duncan	Drumheller	60	23-11-11
McKelvie, James	Carbon (Deceased)	7	26-10-14
Macaulay, Angus G.	Drumheller	9	16- 8-15
McDonald, Hector S.	Coleman	17	7- 7-17
McLeod, John A.	Coleman	18	7- 7-17
McDonald, Noble M.	Bellevue	33	9- 7-18
McIntyre, John J.	Bellevue	39	25- 7-19
McGuckie, Thomas M.	Wayne	43	1-10-19
McLean, Michael D.	Michel, B.C. (Interchange)	68	30- 8-26
Nugent, Bernard	Camrose	57	1- 8-24
O'Donnell, Thomas	Rosedale	61	28-11-11
Pearson, Robinson	Fernie, B.C.	11	19-11-01
Parker, John L.	Lundbreck	25	13-11-03
Pearson, R. N.	Frank	38	10- 5-04
Powell, John W.	Virginia, U.S.A.	60	10- 5-05
Pitcher, Norman C.	Edmonton	75	11-11-12
Pickles, William	Dinant	77	11-11-12
Pavier, Evan L.	Big Valley	24	24- 7-17
Puckett, Owen L.	Robb	29	3- 7-18
Pascoe, Thomas	Mountain Park	78	8- 8-30
Quigley, Daniel H.	Drumheller	28	26- 6-18
Richards, James A.	Edmonton	39	17- 5-04
Raisbeck, Luke	Aerial	47	28-11-04

List of Names of Holders of First Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Robertson, John	Drumheller	2	22-12-05
Richards, C. C.	Calgary (Deceased)	36	13-12-09
Russell, John	Clover Bar	44	22-12-10
Reid, John	Oklahoma, U.S.A.	53	4-12-11
Reid, Adam H.	Oklahoma, U.S.A.	3	18- 9-14
Russell, James	Lethbridge	8	8-12-14
Robert, Louis P.	Bellevue	10	16- 8-15
Ramsay, P. M.	East Coulee	34	12-11-18
Richards, Russell	Blairmore	60	20- 7-25
Stockett, Thomas R.	Utah, U.S.A.	10	19-11-01
Simister, Chas.	Lundbreck	21	13-10-03
Strachan, Robert	Nelson, B.C.	31	10- 2-04
Shepherd, F. H.	Victoria, B.C.	34	2- 5-04
Symons, C. C.	Lethbridge	37	2- 5-04
Stockett, Lewis	Calgary	51	19- 1-05
Stirling, John T.	Edmonton	8	10- 1-08
Scott, Alex.	Castor	5	26- 1-07
Sparrow, Edwin	Tawatinaw	13	7- 1-09
Scott, Andrew N.	Luscar	19	25- 1-09
Stevens, Leonard C.	Edmonton	31	2-12-09
Saville, Enoch O.	Taber	45	22-12-10
Stewart, Robert T.	Edmonton	50	12- 1-22
Shanks, John	Nordegg	51	17- 1-11
Stevenson, John	Glasgow, Scotland	68	6-12-11
Stevenson, William	Hillcrest	87	29- 7-13
Shanks, David	Nordegg	16	4-11-16
Smith, Thomas E.	Montana, U.S.A.	31	3- 7-18
Stevenson, John	Hillcrest	46	26- 7-20
Stewart, James M.	Nordegg	48	26- 7-20
Scott, Thomas W.	Cadomin (Interchange) ..	67	17- 8-26
Saudino, Jos. A.	Drumheller	5	25- 7-32
Thorne, Benjamin L.	Calgary	32	2-12-09
Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, John L.	Edmonton	49	16- 1-11
Thomas, Willis P.	Diamond City	58	23-11-11
Thomas, Joseph D.	Aerial (Deceased)	66	4-12-11
Turner, John H.	Lethbridge (Deceased) ...	49	1- 8-21
Tennant, Robert	Drumheller	59	20- 7-25
Whiteside, O. E. S.	Coleman	6	15-12-98
White, E. Proctor	Virginia, U.S.A.	8	17- 6-01
Waite, Archibald	Taber	15	9- 4-03
Wilson, David G.	Banff	22	31-10-03
Wilson, Arthur R.	Nanaimo, B.C.	28	12- 1-04
Wall, William H.	Vancouver, B.C. (Deceased)	32	10- 2-04
Wilkinson, George	Victoria, B.C. (Deceased)	54	27- 3-05
Williams, T. H.	Vancouver, B.C.	10	18- 1-08
Watters, John	Banff	30	30-11-09
Wark, S. D.	Sointula, B.C. (Deceased)	37	15-12-09
Willey, Edward	Fernie, B.C.	71	1-11-12
Watson, William	Drumheller	73	7-11-12
Williams, Thomas B.	Calgary	2	18- 9-14
Watters, Alexander G.	Banff	32	5- 7-18
Watson, Ronald H.	Edmonton	37	3- 7-18
Wilkinson, George	Victoria, B.C. (Deceased)	45	21-11-19
Wilton-Clark, H. W.	Coleman	66	26- 7-26
Williams, Arthur E.	Saunders	69	1- 8-27
Wilson, Andrew	Drinnan	70	1- 8-27
Wilson, William	Edmonton	72	18- 7-28
Whittaker, William C.	Coal Valley	74	29- 7-28
Yates, Frank	Michel, B.C.	73	29- 7-28

List of Names of Holders of Second Class Certificates issued by the
Government of the Province of Alberta to December 31, 1933:

Name	Address	Cert. No.	Date of Issue
Aspinall, Francis	Vancouver, B.C.	27	27- 5-08
Allen, Peter	Wayne	72	20-12-11
Allen, William C.	Edmonton	22	7- 9-15
Atherton, Edward	Sheerness	49	17- 7-17
Ashurst, William	Coleman	51	17- 7-17
Ashman, Alfred W.	Maple Leaf	88	3- 7-19
Adlam, William	Hillcrest	107	15- 7-19
Armstrong, John	Nordegg	110	16- 7-19
Adams, Thomas H.	Beverly	127	26- 7-20
Bastian, T. W.	Clover Bar	27	8- 4-05
Bowie, J.	Wayne	4	3- 1-07
Bamling, J.	Diamond City	44	2-12-09
Brockhouse, I. B.	Milk River	74	2-12-11
Bridge, Edward	Cumberland, B.C.	99	5-11-12
Brown, Alan J.	Coleman	105	7-11-12
Barclay, Andrew	Frank	111	18-11-12
Brown, William	Commerce	126	31- 7-13
Blake, Henry	Bellevue	128	31- 7-13
Brisco, Daniel	Luscar	19	21- 8-15
Bilson, George H.	Rhodesia	2	27- 8-14
Berford, Edward	Blairmore	27	12- 8-16
Barclay, William	Drumheller	54	10- 8-17
Bovio, M.	Bellevue	61	5- 7-18
Blair, John	Wayne	72	11- 7-18
Brearley, Garnett	Coalhurst	78	23- 7-18
Brown, J. F.	Edmonton	84	28- 6-19
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Badham, Thomas	Coleman	104	15- 7-19
Bainbridge, James	Nanaimo, B.C.	112	5- 8-19
Brooks, Burton T.	Drumheller	129	26- 7-20
Brady, John	Luscar	141	26- 7-20
Brown, Thomas	Edmonton	55	17-11-17
Briggs, William A.	Carbon	154	10-10-21
Bradley, Thomas	Bellevue	166	17- 8-23
Baybutt, Thomas	Hillcrest	168	17- 8-23
Blas, Emile	Wayne	169	17- 8-23
Boucher, Charles T.	Wayne	175	16- 7-24
Barrowman, Alexander	Ardley	182	14-11-24
Bainbridge, George E.	Nordegg	183	12-12-24
Birse, Alexander	Coalhurst	185	20- 7-25
Brown, Richard G.	Cadomin	192	30- 7-26
Burton, William H.	Edmonton	194	6- 8-26
Burton, John T.	Edmonton	212	23- 7-29
Barrie, John	Drumheller	8	26- 7-31
Boughton, C. A.	Rosedale	10	25- 7-32
Burton, James	Luscar	13	25- 7-32
Chestnut, C.	Vancouver, B.C.	30	18- 4-05
Clay, E.	Oxville	28	7- 1-09
Clyne, James	Edmonton	53	22- 4-10
Clemenson, John	Scotland	58	17-12-10
Cooke, Joseph	Burmis	66	20- 2-11
Crowder, Harry	East Coulee	69	18-12-11
Coupland, George	Bellevue	77	21-12-11
Cranston, Michael	Drumheller	119	29- 7-13
Crawford, Alexander	Edmonton	125	31- 7-13
Campbell, K. S.	Beverly	132	31- 7-13
Coupland, Edward	Cadomin	8	18- 9-14
Coutes, George	Lethbridge	20	26- 8-15

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Conlin, John	Drumheller	33	22- 8-16
Cox, John C.	Toronto	42	7- 7-17
Clark, Robert	Hardieville	43	7- 7-17
Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Crawford, John	Edmonton	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
Carson, James	Spring Point	82	17-10-18
Cartwright, Charles E.	Blairmore	85	2- 7-19
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Carr, Thomas	Cadomin	117	1-10-19
Cole, J. J.	Canmore	126	26- 7-20
Congdon, Milton H.	Blairmore	158	1- 8-22
Campbell, Thomas	Drumheller	174	16- 7-24
Chavignaud, Louis G.	Hinton	195	17- 8-26
Davies, D.	Robb	31	18- 4-05
Duggan, R. G.	Nanaimo, B.C.	19	26- 4-04
Davis, A.	Lethbridge	4	19-11-98
Dixon, S.	Commerce	24	8- 2-08
Davies, S.	Alexo	18	10- 1-08
Davies, John	Coleman	11	26-12-07
Dunn, J. P.	Edmonton	9	26-12-07
Davis, John	Lethbridge	31	11- 1-09
Davies, T.	Frank	54	22- 4-10
Davidson, David	Alexo	94	1-11-12
Davies, Thomas O.	Hillcrest	104	7-11-12
Dalziel, Robert	Clover Bar	122	31- 7-13
Digman, John H.	Coalhurst	134	31- 7-13
Dennis, F. W.	England	3	27- 8-14
Dewar, Alexander	Coleman	16	16- 8-15
Donaldson, C. S.	Lethbridge	35	25- 8-16
Duncan, N. S.	Alix	100	8- 7-19
D'Altroy, A. C.	British Columbia	145	1- 8-21
Dieter, W. J.	Sheerness	167	17- 8-23
Davidson, John M.	Clover Bar	187	1- 8-25
Dutton, Joseph A.	Mountain Park	198	1- 8-27
Davidson, Albert M.	Namao	202	20-12-27
Davey, George	Rosedale	209	29- 7-28
Deere, G. E.	Foothills	214	23- 7-29
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Dixon, John O.	High River	220	10- 9-30
Emmerson, C.	Bellevue	3	15-11-98
Eccleston, W.	Edmonton (Deceased)	16	10- 1-08
Evans, T. R.	Coleman	137	31- 7-13
Embree, Merton B.	Evansburg	98	3- 7-19
Edwards, John	Cadomin	7	26- 7-31
Evans, Howell	Mountain Park	24	29- 7-33
Fraser, G. L.	British Columbia (Deceased)	25	23-12-04
Flint, W. G.	Edmonton	16	.....
Francis, J.	Taber	29	8- 1-09
Fox, A.	Nevis	42	29-11-09
Foster, W. R.	Taber	51	24- 1-10
Fulton, James K.	Coleman	153	31- 7-13
Foster, William	Robb	14	16- 8-15
Finlay, Samuel	Clover Bar	25	12- 8-16
Ferguson, C. J.	Edmonton	38	30- 8-16
Fortner, Edward	Tennessee, U.S.A.	57	3- 7-18
France, Thomas	Nordegg	67	9- 7-18

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Fyvie, J.	Drumheller	109	16- 7-19
Fraser, James	Carbon	133	26- 7-20
Fyfe, Walter H.	Nelson, B.C.	142	26- 7-20
Ford, Allen	Michel, B.C.	146	1- 8-21
Fraser, Alex.	Carmangay	221	10- 9-30
Green, R.	Blairmore	17	26- 4-04
Giffen, H. R.	Carbon	14	.....
Gilliland, William	Cardiff	61	17-12-10
Garbett, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
Givens, John	Wayne	99	8- 7-19
Gate, Harry	Coleman (Deceased)	124	26- 7-20
Graham, John	Coaldale	157	1- 8-22
Gidman, Joseph H.	Taber	165	29-12-22
Gordon, Thomas	Drumheller	184	27- 5-25
Gilmour, John	Drumheller	222	9- 2-31
Goodwin, Geo. W.	Bellevue	2	26- 7-31
Goodwin, Wm.	Bellevue	9	26- 7-31
Greenhalgh, R. M.	Coleman	11	25- 7-32
Hall, Oliver	Bellevue	26	23-12-04
Harvie, Robert	Lethbridge	1	30- 5-06
Hutchinson, A. M.	Coleman	6	3- 1-07
Horne, Robert	Blairmore	12	26-12-07
Horswell, John	Edmonton	34	1- 2-09
Howells, Nathaniel	Wayne	55	25- 5-10
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Drumheller	78	21-12-11
Heeley, William G.	Calgary	80	22-12-11
Hill, James	Canmore	84	13- 1-12
Hutton, John	Edmonton	93	1-11-12
Hunter, Henry	Edmonton	102	7-11-12
Hughes, Daniel J.	Diamond City	110	13-11-12
Hartley, William	Bankhead	114	25-11-12
Hunter, Charles	Beverly	4	18- 9-14
Hunter, Alexander B.	Drumheller	7	18- 9-14
Harries, Henry C.	Coleman	9	18- 9-14
Heathcote, Joseph	England	10	18- 9-14
Hughes, William R.	Barnwell	13	6- 8-15
Halliday, George W.	Nanaimo, B.C.	31	22- 8-16
Hutton, David T.	Bellevue	44	10- 7-17
Hastings, Andrew P.	Hillspring	62	5- 7-18
Hulme, Charles	Edmonton	63	6- 7-18
Hargreaves, G.	Lethbridge	70	9- 7-18
Hutchison, P.	Ardley	102	10- 7-19
Hedges, Richard	Beverly	111	18- 7-19
Higney, John	Coalhurst	130	26- 7-20
Heap Robert	Coalhurst	137	26- 7-20
Holmes, Robert	Coleman	144	6- 1-21
Hughes, John C.	Madrid	156	15-12-21
Hamilton, Joseph J.	Lethbridge	164	9- 9-22
Hall, James	Coal Creek, B.C.	190	26- 7-26
Hibbert, William J.	Edmonton	191	26- 7-26
Harries, John	Wayne	213	23- 7-29
Hamilton, John	Delia	18	10- 8-32
Ironmonger, John	Hillcrest	60	5- 7-18
Jones, Samuel A.	Nanaimo, B.C.	18	26- 4-04
Johnson, Moses	Blairmore	46	3-12-09
Jones, David	Edmonton	48	15-12-09
Jones, Peter	Drumheller	92	1-11-12

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Jordan, William	Drumheller	112	20-11-12
Jackson, James	Bellevue	56	3- 7-18
Joberg, A. F.	Delia	68	9- 7-18
Jones, C. E. R.	Cardiff (Deceased)	83	12-11-18
Jones, D.	Coalhurst	116	5- 9-19
Jones, Daniel	Alexo	178	24- 7-24
Jones, I.	Nacmine	197	1- 8-27
Jones, Elias	Coleman	16	25- 7-32
Kerr, John	Lethbridge	33	6- 7-05
Kellock, George	Coleman	39	27-11-09
Keith, John D.	Coalhurst	107	11-11-12
Kaye, Herschel	Pocahontas	129	31- 7-13
Kerr, W. R.	Carbon	115	2- 9-19
Lowrie, Ralph	Stettler	34	6- 7-05
Livingstone, Robert	Lethbridge	6	5- 6-99
Livingstone, John C.	Lethbridge	5	19-11-98
Lee, Robert J.	Estevan, Sask	56	17-12-10
Luck, George	Drumheller	70	18-12-11
Letcher, William M.	Bankhead	96	1-11-12
Leblanc, Emile	Taber	127	31- 7-13
Littler, Robert	Michel, B.C.	6	18- 9-14
Lundy, James	Carbon	53	17- 7-17
Larrait, Charles F.	Hanna	74	12- 7-18
Lindoe, Luke.	Coleman	170	1- 9-23
Littler James	Michel, B.C.	200	12- 8-27
Lavis, George	Drumheller	218	10- 9-30
Musgrove, William	Canmore	32	6- 7-05
Miller, John K.	Drumheller	29	8- 4-05
Morgan, Daniel	South Wales	17	10- 1-08
Moore, Thomas E.	Drumheller	47	11-12-09
Miard, Harry K.	Coal Creek, B.C.	64	16- 1-11
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Drumheller	91	24- 8-12
Mather, Thomas	Luscar	106	11-11-12
Muir, David	Edmonton	108	11-11-12
Massey, Harry	Corbin, B.C.	116	25-11-12
Morgan, Owen	Saunders	121	29- 7-13
Mason, Samuel	Blairmore	130	31- 7-13
Mather, John	Edmonton	23	13- 9-15
Miller, Walter	Beverly	26	12- 8-16
Melling, Peter	Coalhurst	28	12- 8-16
Murray, J.	Coalhurst	90	3- 7-19
Mossey, Thomas	Lethbridge	95	3- 7-19
Makin, J. W.	Hillcrest	103	15- 7-19
Marsh, E.	Midlandvale	113	25- 8-19
Miller, John H.	Midlandvale	131	26- 7-20
Mackie, John	Bankhead	136	26- 7-20
Marsh, John H.	Midlandvale	153	1- 8-21
Meyers, August	Drumheller	172	18-12-23
Mossey, Robert	Frank	173	16- 7-24
Martin, Henry, Sr.	Saunders	203	29- 2-28
Millar, David	Mercoal	204	19- 7-28
Miller, John K.	Drumheller (Duplicate)....	210	24-11-28
Marsh, Walter	Drumheller	20	21- 9-32
Maievschi, John (May)	Edmonton	26	29- 7-33
Morgan, Thos. E.	Hillcrest	27	22- 8-33
Morgan, Evan H.	Coleman	215	23- 7-29
McKean, John W.	Lethbridge	24	23-12-04
McGregor, Alex.	Cardiff	1	20-12-05

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
McLenhan, John A.	Lovett	33	1- 2-09
McKelvie James	Carbon (Deceased)	43	29-11-09
McDonald, Duncan	Drumheller	60	17-12-10
McMillan, Donald	Pincher Creek	71	20-12-11
MacDonald, James A.	Bellevue	79	21-12-11
MacKay, Angus	Nova Scotia	81	26-12-11
McIntyre, John J.	Bellevue	88	2- 3-12
McDonald, J. O. C.	Coleman	15	16- 8-15
McDonald, Hector S.	Coleman	17	16- 8-15
McDonald, Noble M.	Bellevue	18	16- 8-15
McLellan, John A.	Mercoal	24	2-11-15
McFegan, William	South Wellington, B.C.	34	22- 8-16
McIntyre, John J.	Bellevue (Duplicate)	41	9-12-16
MacDonald, J. H.	Nanaimo, B.C.	48	10- 7-17
McQueen, Andrew	Mercoal	71	9- 7-18
McKinnon, H. G.	Canmore	76	13- 7-18
MacAskill, Donald	Drumheller	77	16- 7-18
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McKinnon, John J.	Cadomin	80	26- 7-18
McCullough, Alex.	Cadomin	143	10- 8-20
McLeod, Alexander	Drumheller	149	1- 8-21
McKenna, Peter	Cadomin	161	1- 8-21
MacDonald, William	Drumheller	165	10-10-21
McGaw, A. M. S.	Carmangay	171	15- 9-23
MacDonald, Leslie M.	Bellevue	217	8- 8-30
McDonald, Clyde P.	Bellevue	1	26- 7-31
McGregor, Thos. B.	Lethbridge	19	10- 8-32
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Cadomin	46	10- 7-17
Nugent, Bernard	Camrose	73	11- 7-18
Ostheidt, Gus	Cardiff	1	14-11-98
Oliphant, Joseph H.	Carbon	59	17-12-10
Oliphant, John T.	Medicine Hat	153	1- 8-21
Ostler, James	Taber	160	1- 8-21
Ottewell, William J.	Clover Bar	176	16- 7-24
Ottewell, Cedric P.	Clover Bar	193	6- 8-26
Oakes, Robert	Blairmore	17	25- 7-32
Pearson, W. G.	Blairmore	15	26- 4-04
Parsons, T. Lloyd	Edmonton	26	21- 3-08
Pickles, William	Dinant	35	1- 2-09
Prentice, John	Virginia, U.S.A.	45	2-12-09
Park, Stewart G.	Lethbridge	57	17-12-10
Parker, Levi	Cardiff	68	28- 4-11
Powell, Albert E.	Lundbreck	85	16- 1-12
Parry, Thomas	Coleman	109	12-11-12
Picton, Daniel	Aerial	118	10- 2-13
Penman, John	Rosenroll	120	29- 7-13
Pavier, Evan	Big Valley	37	30- 8-16
Puckett, Owen L.	Robb	50	17- 7-17
Park, William	Bellevue	65	6- 7-18
Pembleton, Geo. W.	Edmonton	97	3- 7-19
Peacock, Charles	Coalhurst	138	26- 7-20
Prendergast, Denis	Nova Scotia	188	26- 7-26
Quigley, Daniel H.	Drumheller	73	20-12-11
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quin, James	East Coulee	23	29- 7-33
Rice, Awrey	Edmonton	2	20-12-05
Roberts, D. E.	Coleman	14	10- 1-08
Rankin, George	Michel, B.C.	41	29-11-09

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Ramsey, Peter M.	East Coulee	86	24- 2-12
Roberts, E.	Rosedale	87	2- 3-12
Richards, Samuel	Bellevue	98	5-11-12
Roberts, John	Cadomin	12	26-10-14
Russell, John	Alix	29	12- 8-16
Robinson, William	British Columbia	30	22- 8-16
Rawlinson, R.	Cadomin	32	22- 8-16
Richards, Evan	Edmonton	59	3- 7-18
Roberts, G.	Lethbridge	79	23- 7-18
Roberts, D. O.	Wayne	86	2- 7-19
Reed, Edward	Drumheller	135	26- 7-20
Ruffell, Alfred	Lethbridge	140	26- 7-20
Radford, James	Wayne	147	1- 8-21
Redpath, James	Wayne	180	11- 8-24
Rees, Daniel	Blairmore	189	26- 7-26
Rappel, Thomas	Canmore	206	19- 7-28
Rolfe, E.	Hillcrest	211	23- 7-29
Steele, Thomas	Coleman	12	26- 4-04
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Sparrow, Edwin	Tawatinaw	7	3- 1-07
Scott, Andrew N.	Luscar	19	10- 1-08
Stewart, J. M.	Nordegg	50	24-12-09
Sihvon, William	East Coulee	40	29-11-09
Sloan, Thomas W.	Burmis	67	3- 3-11
Shaw, Thomas J.	Hinton	75	21-12-11
Strickland, Thomas	Edmonton	101	5-11-12
Schmidt, Otto P.	Camrose	115	25-11-12
Scott, Alexander	Pocahontas	103	7-11-12
Shanks, David	Nordegg	117	7-12-12
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Smith, Thomas E.	Montana, U.S.A.	39	14- 9-16
Simpson, William G.	Drumheller	45	10- 7-17
Stevenson, John	Glasgow, Scotland	47	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sandino, J. A.	Wayne	91	3- 7-19
Stratton, J. M.	Redcliff	94	3- 7-19
Saunt, James	Drumheller	123	26- 7-20
Steele, Francis M.	Calgary	125	26- 7-20
Scott, Frederick G.	Nordegg (Deceased)	128	26- 7-20
Scarpino, F.	Wayne	121	26- 7-20
Shaw, William G.	Kimberlay	177	24- 7-24
Shaw, Joseph H.	Kimberley	186	22- 9-26
Smith, Terence	Beverly	205	19- 7-28
Swan, John	Edmonton	12	25- 7-32
Strang, David	Mountain Park	15	25- 7-32
Sutherland, S. R.	Bellevue	28	22- 8-33
Thomas, John	Diamond City	30	8- 1-09
Thain, Harry S.	Lethbridge	32	12- 1-09
Thomas, Joseph D.	Aerial (Deceased)	37	25-11-09
Thomas, John	Frank	89	25- 3-12
Tonge, Thomas	Lundbreck	90	1- 6-12
Thompson, Joseph	Coleman	97	1-11-12
Thomas, Isaac	Coleman	131	31- 7-13
Tennant, Robert	Coleman	58	3- 7-18
Tully, Thomas	Fernie, B.C.	75	12- 7-18
Turner, J. H.	Lethbridge (Deceased)	89	2- 7-19
Thompson, T.	Coleman	87	2- 7-19
Thomason, C.	Blairmore	119	12-11-19

List of Names of Holders of Second Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Taylor, C. M.	Edmonton	118	1-10-19
Turner, Leonard	Nordegg	132	26- 7-20
Thomson, Andrew R.	Leduc	159	1- 8-22
Thomson, George H.	Lethbridge	163	9- 9-22
Talbot, W. J.	Clover Bar	207	29- 7-28
Thackray, Fred	Lethbridge	208	29- 7-28
Thomson, John	Edmonton	4	26- 7-31
Thomson, James	Drinnan	6	26- 7-31
Touhey, J. B.	Drumheller	22	6- 5-33
Utley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wabamun	181	11- 8-24
Vivyrka, John	Mercoal	21	28- 9-32
Williams, Thomas H.	Vancouver, B.C.	8	20- 7-00
Waite, Archibald	Taber	10	25- 4-04
Wilson, William G.	Canmore	3	20-12-05
Whitelaw, Thomas	Lethbridge	25	24- 2-08
Watters, John	Banff	22	18- 1-08
Watkins, W. E.	Champion	20	18- 1-08
Watson, William	Drumheller	13	26-12-07
Winter, Archibald	Strathcona	63	16- 1-11
Watters, Alexander G.	Banff	95	1-11-12
Williams, John J.	Three Hills	11	18- 9-14
Worthington, Thomas	Lethbridge	69	9- 7-18
Williams, W. E.	Edmonton	96	3- 7-19
Watkins, J. M.	Taber	106	15- 7-19
Williams, Albert	Edmonton	134	26- 7-20
Willetts, Frederick	Hillcrest	148	1- 8-21
Wilson, Robinson	Drumheller	151	1- 8-21
Williams, Arthur E.	Saunders	162	1- 8-21
Worthington, W. T.	Edmonton	92	3- 7-19
Williamson, David S.	Camrose	199	5- 8-27
Westcott, Henry M.	Wayne	201	10- 9-27
Whitehead, J. W.	Blairmore	216	23- 7-29
Wheatley, F. M.	Banff	3	26- 7-31
Wiltse, Donald H.	Forestburg	5	26- 7-31
Womersley, Alfred	Blairmore	25	29- 7-33
Yard, George C.	Trochu	150	1- 8-21
Young, D. B.	Shaughnessy	186	24- 7-25

List of Names of Holders of Third Class Certificates Issued by the Government of the Province of Alberta to December 31, 1933:

Alderson, R. D.	Coleman (Deceased)	17	3- 1-07
Aspinall, Francis	Drumheller	32	30- 5-07
Ashurst, W.	Coleman	82	26- 8-09
Adlam, William	Hillcrest	108	2- 6-10
Archer, Roland	Hillcrest	132	22-12-10
Allen, William C.	Wayne	205	10- 8-12
Archibald, David	Bickerdike	222	25-11-12
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Adams, Thomas H.	Beverly	16	10- 3-14
Anderson, Andrew	Bellevue	39	17- 6-14
Atherton, Edward	Sheerness	40	14- 7-14
Appleton, John T.	Mountain Park	76	19- 4-15
Ashton, William	Hinton	90	27- 8-15
Anderson, Hugh W.	Edmonton	150	7- 7-17
Ashman, Alfred	Maple Leaf	151	7- 7-17
Armstrong, John	Castor	171	17- 7-17

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Armstrong, Peter M.	Nordegg	224	8- 6-18
Arbuckle, John	Mountain Park	263	26- 6-19
Allen, Edgar	Wayne	436	29- 8-21
Antrobus, Fred	Coleman	461	31- 7-22
Ambrossi, Antonio	Nordegg	478	1- 8-22
Astley, David	Luscar	483	1- 8-22
Anderson, Robert	Drumheller	638	17- 8-26
Anderson, Gunner W.	Evansburg	650	1- 8-27
Aitken, William	Mountain Park	668	24- 3-28
Allanby, Charles H.	Foothills	679	19- 7-28
Armstrong, Alex.	Drumheller	697	16- 8-28
Armstrong, John	Castor	719	7- 6-29
Allen, Thos. G.	Blairmore	765	4- 6-30
Annon, Joseph L.	Winnifred	65	25- 6-32
Ashmore, Jas., Jr.	Champion	108	15- 6-33
Appleby, Wm. S.	Canmore	117	6- 7-33
Bastian, T. W.	Clover Bar	30	5-12-04
Bansemmer, R.	Bankhead	14	3- 1-07
Barber, J.	Frank	7	3- 1-07
Burrows, C.	Brule	40	18- 1-08
Brown, T.	Edmonton	24	14- 5-07
Blake, P.	Lundbreck	23	14- 5-07
Brovey, A. C.	Luscar (Deceased)	64	1- 2-09
Boulton, W. E.	Drumheller	48	29- 5-08
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09
Besso, A.	Canmore	80	26- 7-09
Brisco, Daniel	Luscar	117	9- 6-10
Blake, Henry	Blairmore	133	30-12-10
Bradley, Thomas	Bellevue	138	16- 1-11
Barber, James S.	Hillcrest	144	3- 7-11
Bovio, Michael	Bellevue	146	3- 7-11
Brown, Alan J.	Coleman	163	17-11-11
Berford, Edward	Elcan	196	13- 7-12
Blakemore, Royden E.	Edmonton	227	16-12-12
Bainbridge, James	Nanaimo, B.C.	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Beal, George F.	Bellevue	7	20-12-13
Breareley, Garnet	Coalhurst	18	16- 3-14
Barclay, William	Drumheller	22	13- 3-14
Byers, John W.	Taber	48	25-11-14
Brown, John F.	Edmonton	29	21- 4-14
Barclay, William G.	Drumheller	30	23- 4-14
Bvron, John	Coalhurst	11	10- 3-14
Billington, Edward E.	England	73	25- 2-15
Booth, George	Beverly	85	18- 8-15
Boldon, James	Bellevue	86	19- 8-15
Bell, William	Coleman	95	12-10-15
Brown, Robert	Bellevue	112	10- 7-16
Bateman, Fred	Sheerness	123	14- 7-16
Barnes, Edward	Mountain Park	137	25- 9-16
Badham, Thomas	Coleman	153	7- 7-17
Beveridge, Andrew	Lucky Strike	156	7- 7-17
Brown, David M.	Commerce	157	7- 7-17
Brooks, Burton T.	Drumheller	167	17- 7-17
Bartlett, Wallace	Elcan	173	17- 7-17
Bennett, Isaac	Armada	179	17- 7-17
Blair, John	Wayne	183	25- 7-17
Bobrovski, Martin	Drumheller	217	5- 6-18
Baird, William	Drumheller	218	5- 6-18

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Brooks, Claude E.	Drumheller	220	8- 6-18
Briggs, Alfred J.	Drumheller	254	26- 6-19
Brennan, John	Long Coulee	261	26- 6-19
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Birse, Alexander	Coalhurst	268	26- 6-19
Bateman, James	Lethbridge	279	26- 6-19
Bealle, Fred A.	Brule	285	26- 6-19
Ball, Alfred	Natal, B.C.	292	20-11-19
Briggs, Charles	Canmore	302	26- 7-20
Babino, Arthur	Bankhead	312	26- 7-20
Barclay, R. W.	Drumheller	313	26- 7-20
Beveridge, Andrew	Coleman	314	26- 7-20
Bainbridge, G. E.	Nordegg	343	26- 7-20
Bambrough, George	Hillcrest	345	26- 7-20
Burcey, A.	Calgary	352	26- 7-20
Bird, Richard	Nordegg	357	26- 7-20
Barrington, F. J.	Rosedale	362	26- 7-20
Baxter, Robert	Canmore	374	17- 6-21
Brown, Thomas W.	Edmonton	377	1- 8-21
Battee, Noyes S.	Drumheller	381	1- 8-21
Blas, Emile	Bellevue	382	1- 8-21
Blake, Sylvanus R.	Wayne	384	1- 8-21
Barnes, Thomas	Blairmore	387	1- 8-21
Boyd, John	Wayne	390	1- 8-21
Barrie, James	Commerce	401	1- 8-21
Briggs, William A.	Carbon	414	1- 8-21
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Brooks, John	Bellevue	428	1- 8-21
Brown, George A.	Michel, B.C.	432	29- 8-21
Burton, John T.	Edmonton	448	21- 7-22
Birt, William C.	Evansburg	452	31- 7-22
Barnes, Ernest	Coleman	453	31- 7-22
Baker, Robert W.	Coleman	456	31- 7-22
Bradley, Walter	Cardiff	490	1- 9-22
Brooks, George W.	Edmonton	499	1-11-22
Brown, Austin L.	Edmonton	510	30- 5-23
Boscariol, J.	Mountain Park	521	17- 8-23
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bonner, Fred	Evansburg	542	1- 9-23
Barrowman, Alexander	Nordegg	548	15- 9-23
Burton, William H.	Entwistle	553	1-11-23
Brown, Clarence H.	Drumheller	554	15-11-23
Boutry, A.	Bellevue	557	4-12-23
Burnham, George	Fallis	560	18-12-23
Brown, Richard	Cadomin	598	20- 8-25
Burrell, John	Coleman	607	25- 8-25
Burrows, James G.	Bellevue	617	14- 9-25
Balkwill, Frederick W.	Hillcrest	631	30- 7-26
Booth, Harry	Beverly	654	12- 8-27
Burton, James	Edmonton	670	19- 7-28
Brown, William	Canmore	676	19- 7-28
Bradshaw, James	Scapa	690	16- 8-28
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Brodereck, Frederick	Drumheller	702	24-10-28
Bevan, Walter	Canmore	721	7- 6-29
Boughton, C. A.	Rosedale	755	12-11-29
Boseley, Joseph H.	Bellevue	780	10- 6-30
Barber, William J.	Drumheller	781	10- 6-30
Blas, Victor	Blairmore	787	14- 6-30

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Burrell, Archie K.	Drumheller	793	3- 7-30
Bell, William	Canmore	798	8- 8-30
Birrell, William	Robb	1	29- 1-31
Barrass, Thomas	Wayne	40	27- 7-31
Baker, R. D.	Luscar	41	27- 7-31
Barons, James	Drumheller	48	3- 8-31
Brown, Frederick	Edmonton	58	2- 6-32
Blades, James	Delburne	62	25- 6-32
Bonetti, D.	Champion	73	25- 6-32
Barclay, Daniel	Dinant	89	23- 9-32
Blas, Emil	Blairmore	91	22-10-32
Booth, Joseph	Drumheller	98	10- 6-33
Bradley, James	Foreman	103	10- 6-33
Bond, Bertram	Coleman	106	15- 6-33
Beveridge, John S.	Midlandvale	122	29- 7-33
Brown, J. D. B.	Mountain Park	129	26- 8-33
Blackett, W. N.	Drumheller	131	15-10-33
Cawthorne, L.	Frank	46	18- 4-05
Churchill, J.	Frank	45	18- 4-05
Chestnut, C.	Blairmore (Duplicate)	28	6- 7-05
Cowan, W.	Bankhead	4	15-11-08
Cooke, J.	Bankhead	4	30- 5-06
Catchpole, C.	Three Hills	2	30- 5-06
Cole, J. J.	Bankhead	66	1- 2-09
Clyne, J.	Edmonton	65	1- 2-09
Chestnut, C.	Saunders West	28	26- 4-04
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Clemenson, John	Bankhead	105	30- 5-10
Carson, James	Coalhurst	120	21- 6-10
Crockett, Levi A.	Hillcrest	131	22-12-10
Coupland, George	Bellevue	148	4- 7-11
Carson, George	Frank	154	8- 7-11
Crawford, George	Frank	160	17-11-11
Combs, Walter P.	Taber	164	17-11-11
Coupland, Edward	Cadomin	173	17-11-11
Cox, John	Coleman	193	13- 7-12
Crawford, John	Blairmore	197	13- 7-12
Coutts, George	Lethbridge	210	26-10-12
Clark, Robert	Lethbridge	212	31-10-12
Cranston, Michael	Drumheller	218	11-11-12
Crawford, William	Lethbridge	8	6- 3-14
Coutts, David	Hardieville	23	30- 3-14
Crabb, S. A. B.	Lethbridge	38	28- 5-14
Chaplow, Joseph	Lethbridge	49	25-11-14
Clarke, Robert G.	Drumheller	70	16- 2-15
Campbell, John H.	Canmore	71	16- 2-15
Coxon, Thomas	Nacmine	80	27- 8-15
Convery, Dennis	Coleman	107	10- 7-16
Cooper, John A.	Lethbridge	166	10- 7-17
Coutts, Anthony B.	Hardieville	178	17- 7-17
Campbell, Henry	Bellevue	188	13- 8-17
Collins, Sidney G.	Edmonton	219	5- 6-18
Chapman, Christopher	Drumheller	232	12- 6-18
Campbell, George P.	Nordegg	229	8- 6-18
Chambers, Ralph H.	Lovett	246	26- 6-19
Campbell, Thomas	Alexo	247	26- 6-19
Conley, Leroy L.	Saunders	260	26- 6-19
Chalmers, James	Edmonton	278	26- 6-19
Carr, Thomas	Brule	283	26- 6-19

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Clark, John	Bankhead	301	26- 7-20
Congalton, Clem. S.	Alaska (Deceased)	315	26- 7-20
Cameron, Donald	Coalspur	331	26- 7-20
Cotterill, John	Rosedale	346	26- 7-20
Crawford, George	Bellevue	365	26- 7-20
Candlish, W. S.	Brule	366	26- 7-20
Causey, Thomas	Taber	403	1- 8-21
Craig, James M. S.	Nordegg	413	1- 8-21
Clelland, William	Lethbridge	421	1- 8-21
Curry, John	Passburg	439	3-11-21
Chalmers, Robert	Edmonton	454	31- 7-22
Cowan, James	High River	459	31- 7-22
Congdon, Milton H.	Blairmore	476	1- 8-22
China, John	Nordegg	480	1- 8-22
Cardle, James	Bellevue	481	1- 8-22
Clarke, Richard	Hillcrest	500	1-11-22
Clelland, Thomas	Edmonton	574	24- 7-24
Crichton, Patrick	Hillcrest	516	17- 8-23
Carty, Patrick	Evansburg	595	20- 7-25
Canet, Camille A.	Blairmore	601	25- 7-25
Crawford, Robert	Lethbridge	619	21-10-25
Chagivnaud, Louis G.	Hinton	626	26- 7-26
Crawford, Charles	Edmonton	647	1- 8-27
Conlin, Richard	Drumheller	656	14- 8-27
Crawford, James	Clover Bar	662	10- 9-27
Cumberland, James	Drumheller	672	19- 7-28
Cartledge, George F.	Aerial	673	19- 7-28
Carmichael, Malcolm	Canmore	684	1- 8-28
Colbourne, J. H.	Drumheller	710	1- 5-29
Currie, Robert	Canmore	715	7- 6-29
Christie Joseph	Bellevue	731	17- 6-29
Clack, Robert W.	Drumheller	740	17- 6-29
Castella, Jens	Standard	743	5- 7-29
Clancy, James	Craigmyle	28	3- 8-31
Chisholm, John A.	Luscar	37	22- 8-31
Clyne, James M., Jr.	Edmonton	45	26- 8-31
Challenger, Edward J.	Magrath	86	24- 8-32
Cowan, Robert	Drumheller	92	22-10-32
Campbell, James	Cluny	107	15- 6-33
Crozier, John E.	Drumheller	128	26- 8-33
Davies, T.	Frank	49	18- 4-05
Duggan, R. G.	Taber	27	26- 4-04
Downs, T.	Canmore	24	25-11-03
Dickson, S.	Commerce	18	3- 1-07
Devonshire, G.	Canmore	31	23- 5-07
Duggan, E. J.	Taber	41	18- 1-08
Davies, T. O.	Hillcrest	109	2- 6-10
Davidson, David	Coleman	170	17-11-11
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Duthie, Alexander F.	Pocahontas	184	28-11-11
Digman, John H.	Royal View	198	13- 7-12
Duncan, Ninian S.	Robb	211	31-10-12
Draper, Robert	Hillcrest	214	1-11-12
Dennis, Frederick W.	England	3	28-11-13
D'Altroy, Arthur C.	British Columbia	6	1-12-13
Dean, William	Bankhead	20	20- 3-14
Duggan, John	Wayne	97	12-10-15
Douglas, D. B.	Edmonton	129	26- 7-16
Davis, William	Mountain Park	192	7-11-17

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Dunnigan, Edward	Evansburg	216	1- 6-18
Dawes, Edmund	Drumheller	222	8- 6-18
Davies, J.	Coleman	265	26- 6-19
Dupen, Thomas	Edmonton	275	26- 6-19
Dunlop, Hugh	Coleman	321	26- 7-20
Dunn, W. P.	Edmonton	347	26- 7-20
Devoy, William	Hardieville	9	6- 3-14
Dryburgh, W. W.	Nordegg	356	26- 7-20
Dieter, Walter J.	Sheerness	397	1- 8-21
Davey, George	Michel, B.C.	418	1- 8-21
Dunn, Samuel	Taber	441	15-12-21
Deere, Gladstone E.	Blackstone	449	21- 7-22
D'Amico, George	Nordegg	486	1- 8-22
Davies, John C. H.	Coalmont, B.C.	492	1- 8-22
Dudley, John T.	Hillcrest	493	1- 8-22
Davidson, Albert M.	Namao	517	17- 8-23
Desson, Horace E.	Rosedale	526	17- 8-23
Driscoll, L.	Evansburg	560	24- 7-24
Dawson, Glen	Brule	573	24- 7-24
Dunbar, Edgar J.	Canmore	575	1- 8-24
Dunn, Charles F.	Drumheller	604	25- 7-25
Dupen, Albert E.	Lethbridge	616	14- 8-25
Davis, Fred M.	Jeffrey	618	28- 9-25
Dutton, Joseph A.	Redcliff	623	26- 7-26
Donnachie, John	Brule	630	26- 7-26
Dixon, John O.	High River	698	16- 8-28
Davis, D. B.	Midlandvale	730	10- 6-29
Davies, James	East Coulee	784	10- 6-30
Dutka, Joseph	Canmore	794	3- 7-30
Dalziel, William	Clover Bar	14	26- 7-31
Davies, W. E.	Hillcrest	16	26- 7-31
Davidson, Robert M.	Coleman	33	26- 7-31
Denholm, James	Mercoal	17	26- 7-31
Davies, Richard	Luscar	42	26- 7-31
Dinsdale, Wm.	East Coulee	61	2- 6-32
Donaldson, Thomas	Shaughnessy	64	25- 6-32
Davies, E. M.	Wayne	95	25- 5-33
Davies, G. C.	Lundbreck	114	3- 7-33
Dutton, Alfred	Mountain Park	121	29- 7-33
Eccleston, W.	Edmonton (Deceased)	20	3- 1-07
Evans, H.	Taber	94	2-12-09
Evans, D.	Frank	83	3- 9-09
Evans, Hugh	Lethbridge	156	12- 7-11
Embree, Merton B.	Evansburg	239	31- 7-13
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Llewellyn	Coleman	152	7- 7-17
Excoffon, Eugene	Bellevue	155	7- 7-17
Eno, John W.	Drumheller (Deceased)	223	8- 6-18
Eccleston, Richard	Bellevue	243	26- 6-19
Evans, Thomas O.	Blairmore	244	26- 6-19
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Charles	Hillcrest	327	26- 7-20
Eccleston, J. W.	Mountain Park	330	26- 7-20
Evans, William	Drumheller	360	26- 7-20
Evans, Thos. L.	Calgary	367	1-11-20
Evans, James D.	Drumheller	383	1- 8-21
Entwistle, Albert V.	Kipp	471	31- 7-22
Eccleston, Thomas	Mountain Park	475	31- 7-22
Eckert, William	Sedalia	539	17- 8-23

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Elkes, F. W.	Newcastle	724	7- 6-29
Evans, H.	Mountain Park	750	5- 9-29
Edwards, John	Cadomin	32	26- 7-31
Evans, David E.	Luscar	46	27- 7-31
Ewing, Fred	Donalda	97	10- 6-33
Edwards, O. E.	Cadomin	115	3- 7-33
Fairhurst, H.	Lethbridge	39	23-12-04
Ferguson, C. J.	Edmonton	4	20-12-05
Fraser, J.	Coleman	8	3- 1-07
Fox, A.	Carbon	55	8- 1-09
Fowers, C. W.	Canmore	50	29- 5-08
Fiske, G. E.	Edmonton	88	27-11-09
Fisher, Samuel	Passburg	169	17-11-11
Ford, Allen	Burmis	183	28-11-11
Foster, William	Robb	31	28- 4-14
Ferguson, John	Commerce	34	23- 5-14
Fyfe, Walter H.	Nelson, B.C.	79	19- 8-15
Fishwick, Thomas	Stettler	98	12-10-15
Foster, James	Lethbridge	174	17- 7-17
Fisher, William J.	Bellevue	186	17- 7-17
Fisher, Ernest	Bellevue	256	26- 6-19
Fraser, Alec	Carmangay	274	26- 6-19
Fraser, James	Carbon	286	25- 8-19
France, Harry	Nordegg	288	8-10-19
Flynn, Thomas E.	Coleman	306	26- 7-20
Ford, George C.	Drumheller	310	26- 7-20
Fudge, George H.	Foothills	311	26- 7-20
Fisher, Harry	Hillcrest	338	26- 7-20
Fourneau, Jean F.	Bellevue	396	1- 8-21
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Foster, Richard	Edmonton	502	29-12-22
Fleming, Nelson	Coleman	550	1-11-23
Fulton, James	Champion	652	12- 8-27
Fry, N.	Donalda	752	5- 9-29
Fox, A. A.	Canmore	808	29-10-30
Finkbinder, Henry	Scapa	30	26- 7-31
Foster, Cyril E.	Rocky Mountain House ..	60	2- 6-32
Fridel, Stephen	Barrhead	63	25- 6-32
Foye, Edward B.	Delia	93	1-11-32
Gatlis, R.	Long Coulee	85	25-11-09
Giffen, H. R.	Carbon	19	26- 4-04
Gates, H.	Coleman (Deceased)	26	26- 4-04
Griffiths, E. H.	Canmore	33	5-12-04
Gladwin, J.	Edmonton	97	20-12-09
Griffiths, T. J.	Lille	77	18- 6-09
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Cardiff	123	8-11-10
Gwilliam, David J. M.	Namao	130	22-12-10
Gregory, John B.	Passburg	128	17-12-10
Garrett, John	Lille	147	4- 7-11
Griffiths, John T.	Lille	168	17-11-11
Garbett, Richard	Michel, B.C.	180	23-11-11
Gorton, James	Hillcrest	203	22- 7-12
Green, Henry V.	Halkirk	1	1-11-13
Grant, Robert H.	Edmonton	2	23-10-13
Grant, Robert	Lethbridge	10	10- 3-14
Goldie, William	Lethbridge	24	1- 4-14
Graham, Robert	Clover Bar	50	27-11-14
Gilday, Michael E.	Drumheller (Deceased) ..	63	11-12-14

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Gillespie, John C.	Drumheller	132	3- 8-16
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Givens, John	Drumheller	158	10- 7-17
Goodrick, William L.	Commerce	168	17- 7-17
Goodwin, Andrew	Bellevue	187	13- 8-17
Gammie, John S.	Drumheller	226	8- 6-18
Grant, Donald A.	Hillcrest	242	26- 6-19
Gordon, Thomas	Drumheller	248	26- 6-19
Green Henry V.	Halkirk (Duplicate)	291	15-11-19
Goodwin, G. W.	Bellevue	320	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Gibson, Henry	Edmonton	349	26- 7-20
Gilmour Pete	Bragg Creek	363	26- 7-20
Gibson, William	Edmonton	370	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Galbraith, A. G.	Coalhurst	460	31- 7-22
Gregory, William W.	Mountain Park	496	6- 9-22
Gavelin, Fred	Blairmore	519	17- 8-23
Gibson, Joseph C.	Diamond City	587	24- 1-25
Gilmour, John	Cadomin	605	25- 7-25
Gordon, David L.	Drumheller	636	6- 8-26
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gallagher, John	Rosedale Stn.	760	4- 6-30
Goodwin, William	Bellevue	766	4- 6-30
Green, William	Luscar	775	10- 6-30
Guisto, G.	Beazer	6	13- 7-31
Graham, William	Coleman	19	26- 7-31
Gotheridge, W. V.	Round Hill	26	26- 7-31
Goodwin, Albert E.	Bellevue	43	26- 7-31
Gibson, James	Willow Creek	75	25- 6-32
Guiney, C. John	Rosebud	79	25- 6-32
Galenza, P. L.	Leduc	113	3- 7-33
Gardner, H. H.	Coleman	135	31-10-33
Holmes, G. E.	Fernie, B.C.	15	1- 9-03
Hood, Andrew	Frank	20	26- 4-04
Hadfield, John	Canmore	23	21-6- 03
Harrison, Thomas	Cadomin	29	11- 7-04
Haines, Thomas	Coleman	37	23-12-04
Harvie, Robert	Lethbridge	40	23-12-04
Hallworth, Albert	Bellevue	52	12- 6-08
Hayes, Robert	Blairmore	60	22- 1-09
Henderson, W.	Calgary	61	26- 1-09
Harvie, John	Taber	68	1- 2-09
Higgins, Alfred	Bankhead	25	15- 5-07
Hannen, James	Canmore	1	30- 5-06
Holden, James	Drumheller (Deceased)....	13	3- 1-07
Humble, Stephen T.	Bellevue	29	23- 5-07
Hamilton, Charles	Edmonton	36	10- 1-08
Hilling, James	Coleman	43	23- 1-08
Hutton, Isaac	Bellevue	99	27-12-09
Hartley, William	Bankhead	110	2- 6-10
Hill, James	Canmore	114	3- 6-10
Hulme, Charles	Carbon	124	17-12-10
Henderson, James	Reid Hill	134	30-12-10
Hutton, John	Edmonton	135	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Halliday, George W.	Nanaimo, B.C. (Duplicate)	248	31- 7-13
Halliday, George	Nanaimo, B.C.	155	8- 7-11
Hughes, William R.	Barnwell	181	23-11-11

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Hutton, George	Bellevue	186	2-12-11
Hutchinson, Peter	Ardley	202	22- 7-12
Heap, Robert	Lundbreck	206	10- 8-12
Hunter, Alexander B.	Drumheller	207	10- 8-12
Harries, Henry C.	Coleman	209	26-10-12
Hutton, David T.	Bellevue	241	31- 7-13
Heathcote, Joseph	Edmonton	32	28- 4-14
Harmison, William	Cassidy, B.C.	41	27- 8-14
Hynd, William	Elcan	52	26-11-14
Hutton, Hutton	Bellevue	60	5-12-14
Hargreaves, George	Lethbridge	65	11-12-14
Hopkins, William	Coleman	93	1- 9-15
Huddart, Matthew	Bellevue	102	18-11-15
Hamilton, John	Lethbridge	120	10- 7-16
Howells, John	Elcan	126	19- 7-16
Hyde, Isaac	Cadomin	134	15- 9-16
Holmes, Robert	Coleman	141	11-11-16
Hunter, John T.	Garden Plain	148	7- 7-17
Holland, Thomas	Lethbridge	161	10- 7-17
Hastings, Andrew P.	Lethbridge	176	10- 7-17
Hodgkinson, John A.	Mountain Park	205	1- 6-18
Hudyma, John	Pocahontas	207	1- 6-18
Head, James	Taber	209	1- 6-18
Hooks, John W.	Drumheller	210	1- 6-18
Hedges, Richard	Beverly	239	29- 8-18
Higney, John	Coalhurst	245	26- 6-19
Hopkins, John T.	Coleman	259	26- 6-19
Hunter, James	Lethbridge	276	26- 6-19
Huff, L. E.	Lethbridge	325	26- 7-20
Hutchison, J. J.	Lovett	332	26- 7-20
Hawkins, E. L.	Nordegg	339	26- 7-20
Hillary, Joseph	Drumheller	391	1- 8-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hutchinson, George E.	Nordegg	402	1- 8-21
Hall, James	Brookdale	404	1- 8-21
Hetherington, R., Jr.	Wayne	420	1- 8-21
Hogg, Charles M.	Lethbridge	424	1- 8-21
Hamilton, Joseph J.	Lethbridge	434	29- 8-21
Hall, Ernest	Wayne	438	10-10-21
Horner, Charles	Edmonton	440	16-12-21
Hopkins, William H.	Drumheller	451	31- 7-22
Hooten, Robert	Edmonton	505	15- 2-23
Hughes, Harry	Natal B.C.	506	9- 3-23
Harris, Rupert S.	Edmonton	513	17- 8-23
Hawkins, Harold	Drumheller	541	1- 9-23
Hulme, James	Carbon	564	26- 2-24
Hart, Daniel	Wayne	566	26- 6-24
Hadfield, W. A.	Coleman	567	16- 7-24
Harries, John	Wayne	568	16- 7-24
Hughes, Angus	Coleman	572	24- 7-24
Horne, James	Mercoal	576	1- 8-24
Holliday, William	Drumheller	596	20- 7-25
Hagblad, Theodore	Lethbridge	602	25- 7-25
Hetherington, Joseph W.	Carbon	609	25- 7-25
Hronek, Ben	Halkirk	614	1- 8-25
Hibbert, William T.	Coleman	622	11- 5-26
Hansen, Knud	Aerial	644	1- 8-27
Henderson, Andrew	Wayne	655	14- 8-27
Hamilton, John M.	Hanna	657	14- 8-27

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Hillary, Michael	Midlandvale	665	26-10-27
Horne, Thomas, Jr.	Luscar (Deceased)	687	1- 8-28
Hart, James J.	Coleman	692	16- 8-28
Hall, Robert	Canmore	703	24-11-28
Hadwell, A. J.	Bellevue	717	7- 6-29
Halbert, David	Trochu	723	7- 6-29
Hillary, H.	Bellevue	736	17- 6-29
Hulbert, H. A.	Coleman	747	23- 7-29
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hopkins, Arthur J.	Foothills	761	4- 6-30
Heyworth, E. S.	Dinant	763	4- 6-30
Hunter, Thomas	Edmonton	805	22-10-30
Hooks, Albert	Drumheller	807	29-10-30
Harrop, Wm.	Robb	2	29- 1-31
Hogg, John	Foothills	22	13- 7-31
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Howells, Edward W.	Mercoal	52	6- 1-32
Halbert, Robert	Trochu	71	25- 6-32
Hook, Alfred J.	Halkirk	78	25- 7-32
Ironmonger, John	Hillcrest	145	3- 7-11
Ironmonger, William	Hillcrest	487	1- 8-22
Jones, Evan	Coalfields	12	26- 4-04
James, Joseph	Frank	25	26- 4-04
Jones, Samuel A.	Nanaimo, B.C.	17	26- 4-04
Jones, Erskine	Coalfields	47	18- 4-05
James, Henry	Coleman	53	14- 7-08
Jones, David	Edmonton	69	1- 2-09
Jones, Jack	Cardiff	127	17-12-10
Jones, Peter	Lethbridge	195	13- 7-12
Jordan, William	Drumheller	220	20-11-12
Joyce, Michael	Blairmore	224	25-11-12
Jackson, John	Bellevue	246	31- 7-13
James, John	Pocahontas	28	21- 4-14
Jones, David	Commerce	55	27-11-14
Johnson, Albert	Coleman	88	26- 8-15
Jones, Daniel G.	Lovett	99	10-12-15
Jones, Evan J.	Calgary	144	3- 7-17
Jinks, William E.	England	180	25- 7-17
Jones, John H.	Taber	214	1- 6-18
James, Isaac A.	Coleman	252	26- 6-19
Jones, Richard	Nordegg	289	8-10-19
Johnstone, Alexander	Clover Bar	329	26- 7-20
James, Thomas	Saunders	340	26- 7-20
Jones, Griffith	Edmonton	375	17- 6-21
Jordon, Benjamin	Calgary	463	31- 7-22
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Daniel	Dinant	474	31- 7-22
Jones, Richard M.	Wayne	491	1- 9-22
Jackson, Thomas	Coleman	495	1- 9-22
Jones, Arthur	Coleman	547	15- 8-23
Johnson, Chris.	Carbon	561	28-12-23
Jones, David I.	Wayne	578	11- 8-24
Jones, I.	Edmonton	589	3- 3-25
Jones, Elias	Coleman	680	1- 8-28
Johnson, Thomas	Drumheller	696	16- 8-28
Jubb, J. W.	Drumheller	708	1- 5-29
Jones, Jenkin	Luscar	771	4- 6-30
James, Isaiah	Rumsey	801	18-10-30
Johnson, Moses F.	Alix	804	18-10-30

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
James, Albert J.	Forestburg	25	26- 7-31
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Johnson, Alexander J.	Ardley	68	25- 6-32
Jones, Wm. J.	Rosalind	74	25- 6-32
Jones, W. J.	Newcastle	100	10- 6-33
Jones, E. W.	Drumheller	127	22- 8-33
Jones, David	Wayne	133	25- 9-33
Kerr, William R.	Carbon	89	29-11-09
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, Robert	Lundbreck	76	17- 6-09
Kaye, Herschel	Maycroft	191	4- 1-12
Kemp, David	Beaver Mines	201	22- 7-12
Keynon, William	Mountain Park	44	28- 9-14
Knox, Joseph	Hardieville	119	10- 7-16
Kelly, Patrick	Edmonton	147	7- 7-17
Kerrison, Thomas W.	Magrath	163	10- 7-17
Koentges, John	Blairmore	182	25- 7-17
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Klejko, Stephen	Coleman	213	1- 6-18
King, John J.	Nordegg	221	8- 6-18
Kirkham, Thomas	Sheerness	284	26- 6-19
Kehl, Isidore	Big Valley	359	26- 7-20
Krause, Herman F.	Lethbridge	407	1- 8-21
Kay, Arthur	Coleman	501	1-11-22
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Knudson, Arthur	Canmore	586	4-12-24
Hendrick, Samuel O.	Coalhurst	597	20- 7-25
Kennedy, William	Mountain Park	606	25- 7-25
Kergan, Robert G.	Lethbridge	610	25- 7-25
Krupper, A.	Drumheller	711	7- 6-29
King, Joseph	Coalhurst	726	7- 6-29
Kay, Walter S.	Drumheller	754	12-11-29
Kerr, Robert G.	Blairmore	764	4- 6-30
Koentges, Joseph	Bellevue	770	4- 6-30
Kowal, Alex.	Canmore	790	14- 6-30
Kennedy, Joseph	Willow Creek	799	10- 9-30
Kiernan, Patrick	Robb	3	20- 2-31
Kay, William	Drumheller	53	26- 2-32
Kirkeby, B. A.	Craigmyle	101	10- 6-33
Keough, Frank J.	Drumheller	134	30- 9-33
Livingstone, Robert	Lethbridge	7	21-11-98
Livingstone, James C.	Lethbridge	18	26- 4-04
Learmonth, A. J.	Redcliff	42	23- 1-08
Love, William	Edmonton	86	27-11-09
Lamont, David	Cadomin	98	24-12-09
Letcher, John J.	Hillcrest	149	4- 7-11
Leblanc, Emile	Taber	153	8- 7-11
Littler, Robert	Michel, B.C.	166	17-11-11
Loxton, George	Fernie, B.C.	176	17-11-11
Littler, John	Michel, B.C.	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12
Laight, Jonas	Medicine Hat	233	3- 5-13
Lynch, Stewart	Canmore	26	15- 4-14
Loxton, John	Fernie, B.C.	51	27-11-14
Letcher, Joseph H.	Lovett	100	12-10-15
Lamond, David	Evansburg	109	10- 7-16
Loftus, Edward	Drumheller	111	10- 7-16
Lewis, Thomas	Hardieville	131	26- 7-16
Longworth, Thomas	Calgary	146	5- 7-17

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Logan, John T.	Drumheller	190	6- 9-17
Lohmaier, Peter	Sheerness	238	15- 7-18
Lee, Walter J.	Nordegg	269	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lindsay, James	Coalhurst	273	26- 6-19
Lawrence, John	Drumheller	294	1-12-19
Lewis, Hanbury	Calgary	364	1-11-20
Leonard, Philip	Nordegg	479	1- 8-22
Lytkowski, William P.	Canmore	503	30-12-22
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lewis, John W.	Mountain Park	580	25- 9-24
Lavis, George	Drumheller	585	14-11-24
Longworth, John	Bellevue	634	30- 7-26
Lowry, William J.	Drumheller	641	22- 9-26
Leitch, Thomas	Drumheller	660	1- 9-27
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Lammie, Robert	Beverly	694	16- 8-28
Lehmann, Max	Wayne	742	5- 7-29
Lund, Fred	Blairmore	767	4- 6-30
Laing, W. R.	Cadomin	774	10- 6-30
Letcher, R. C.	Hillcrest	795	12- 7-30
Leivers, Albert	Wayne	12	13- 7-31
Musgrove, William	Canmore	9	23- 8-00
Mattson, Matt	Frank	34	5-12-04
Machin, J. C.	Strathcona	46	26- 2-08
Moore, Thomas E.	Drumheller	56	11- 1-09
Mather, Thomas	Edmonton	96	8-12-09
Morgan, Owen	Saunders	143	3- 7-11
Munro, William K.	Lille	150	4- 7-11
Muir, David	Edmonton	151	8- 7-11
Miller, Walter	Edmonton	159	25- 8-11
Moore, James H.	Coleman	167	17-11-11
Massey, Harry	Michel, B.C.	172	17-11-11
Mason, Samuel	Lille	174	17-11-11
Murray, John	Taber	187	6-12-11
Morrison, Malcolm	Midlandvale	189	30-12-11
Melling, Peter	Evansburg	208	26-10-12
Mackie, John	Hillcrest	221	25-11-12
Makin, John W.	Coleman	240	31- 7-13
Muir, Alexander	Hardieville	12	10- 3-14
Miller, Joseph	Stafford Village	14	10- 3-14
Muir, Robert	Bankhead	21	23- 3-14
Murray, David	Hillcrest	35	26- 5-14
Mather, John	Cadomin	45	26-10-14
Muir, James	Bankhead	57	5-12-14
Marsh, Ernest	Taber	61	5-12-14
Morgan, William J.	Canmore	64	11-12-14
Martin, William H.	Brule	69	28- 1-15
Marsh, John H.	Lethbridge	75	20- 3-15
Mallabone, Ernest	Canmore (Deceased)	105	7- 7-16
Miller, David L.	Taber	114	10- 7-16
Millar, Peter P.	Drumheller	127	26- 7-16
Maddison, William	Mountain Park	136	25- 9-16
Mitchell, John	Evansburg	143	27- 2-17
Morgan, Robert M.	Coleman	160	10- 7-17
Morse, Alfred T.	Hanna	172	17- 7-17
Michayluck, John G.	Brule	184	25- 7-17
Marsh, William	Drumheller	230	7- 6-18
Mathewson, James	Nevis	236	22- 6-18

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Monkton, William	Rosedale	322	26- 7-20
Miller, Joseph, Jr.	Lethbridge	326	26- 7-20
Milnes, John	Bellevue	334	26- 7-20
Melling, Joseph	Evansburg	335	26- 7-20
Maddison, John	Hillcrest	354	26- 7-20
Melvin, J. L.	Lethbridge	371	28-12-20
Meyers, August	Drumheller	406	1- 8-21
Minue, Graydon B.	Nordegg	410	1- 8-21
Mitchell, Archie	Cadomin	412	1- 8-21
Metcalf, Joseph W.	Coalhurst	498	1-11-22
Mossey, Robert	Frank	507	17- 5-23
Macri, D.	Brule	518	17- 8-23
Martin, David	Blairmore	527	17- 8-23
Miller, William	Drumheller	535	17- 8-23
Marsh, Walter	Kellog, Idaho	538	17- 8-23
Martin, Henry, Sr.	Saunders West	549	15- 9-23
Mitchell, Hugh J.	Foothills	569	24- 7-24
Muir, Alexander	Coleman	593	20- 7-25
Millar, David	Mercoal	627	26- 7-26
Metcalfe, Joseph W.	Drumheller	666	16- 1-28
Musgrove, Henry B.	Canmore	674	19- 7-28
Muncy, Howard C.	Foreman	693	16- 8-28
Mayon, Daniel	Drumheller	707	23- 3-29
Millar, C. C.	Bellevue	714	7- 6-29
Morris, David	Bellevue	720	7- 6-29
Mossom, John	Drumheller	734	17- 6-29
Meek, Fred G.	Heisler	737	17- 6-29
Morris, Wm.	Cadomin	744	12- 7-29
Morris, Robert S.	Aerial	745	12- 7-29
Marsh, Wm. J.	Midlandvale	776	10- 6-30
May, John	Beverly	786	14- 6-30
Mathieson, David	Edmonton	789	14- 6-30
Muir, Thomas	Coalhurst	800	18-10-30
Morgan, Ernest	Blairmore	15	13- 7-31
Madsen, S.	Luscar	39	26- 7-31
Mather, John	Coalhurst	51	6- 1-32
Mitchell, Chas. G.	Pincher Creek	82	24- 8-32
Marsh, Walter	Coleman	84	24- 8-32
Mitchinson, Arthur	Donalda	88	23- 9-32
Molyneux, Thomas	Aerial	102	10- 6-33
Molzahn, Henry	East Coulee	111	15- 6-33
Muir, James	Edmonton	137	28-12-33
McKay, John J.	Lethbridge	5	19-11-98
McKinnon, H. G.	Canmore	36	5-12-04
McGregor, Alex.	Big Valley	41	16- 1-05
McCulloch, Alex.	Cadomin	43	18- 4-05
McDonald, J. A.	Blairmore	44	18- 4-05
McVey, William	Frank	39	10- 1-08
McLeary, Stewart	Lethbridge	58	12- 1-09
McMillan, William D.	Coleman	72	25- 2-09
McKinnon, A. J.	Canmore	62	29- 1-09
McLenhan, John A.	Dinant	51	8- 6-08
McGarry, Martin	Michel, B.C.	59	19- 1-09
McDonald, James A.	Lille	91	29-11-09
McMillan, Donald	Coleman	107	31- 5-10
McDonald, Duncan	Drumheller	112	2- 6-10

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
McDonald, Hector	Priddis	115	3- 6-10
McDonald, William C.	Lethbridge	122	16- 7-10
McDevitt, James J.	Cadomin	129	22-12-10
McGladrie, John	Lille	152	8- 7-11
McMullin, Joseph	Hillcrest	171	17-11-11
McGough, Joseph P.	Bellevue	219	18-11-12
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, Noble M.	Bellevue	5	28-11-13
McGowan, James K.	Lethbridge	13	10- 3-14
McLeod, John A.	Coleman	74	8- 3-15
McLellan, John A.	Cadomin	77	8- 5-15
McIlveen, William	Lovettville	80	19- 8-15
McAndrew Robert	Clover Bar	81	19- 8-15
McAndrew, John	Calgary	83	19- 8-15
McKean, George J.	Bellevue	121	10- 7-16
McLean, William	Mountain Park	122	10- 7-16
McQueen, Andrew	Mercoal	124	19- 7-16
McMillan, Daniel	Drumheller	149	7- 7-17
McDonald, John H.	Nanaimo, B.C.	164	10- 7-17
McKinnon, John L.	Coleman	189	4- 9-17
McDonald, George	Drumheller	212	1- 6-18
MacKay, William J. K.	Ontario	240	28- 1-19
McDicken, James	Coleman	251	26- 6-19
McFegan, Robert	Michel, B.C.	255	26- 6-19
MacPherson, John M.	Coalhurst	257	26- 6-19
McQueen, George	Nordegg	270	26- 6-19
McDade, John	Drumheller	290	8-11-19
McGowan, William	Lethbridge	317	26- 7-20
McKinnie, John	Drumheller	369	26- 7-20
McKenna, Harry	Pocahontas	376	17- 6-21
McAskill, Alexander	Drumheller	380	1- 8-21
McGaw, A. M. S.	Carmangay	398	1- 8-21
McGregor, Thomas B.	Lethbridge	417	1- 8-21
McNab, Murdoch	Coalhurst	419	1- 8-21
McLeod, Gordon J.	Mountain Park	422	1- 8-21
MacDonald, William	Drumheller	431	29- 8-21
McCubbrey, James	Drumheller	458	31- 7-22
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
MacLeod Roderick	Coleman	470	31- 7-22
McEachern, Malcolm	Wayne	531	17- 8-23
McLennan, George A.	Drumheller	534	17- 8-23
MacNeil, James	Cadomin	537	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLafferty, P.	Bellevue	551	1-11-23
McGladrie, Andrew	Lethbridge	423	1- 8-21
McLeod, John R.	Bellevue	591	27- 5-25
Mackie, James	Big Valley	608	25- 7-25
McAllister, David	Mountain Park	613	1- 8-25
McKinnon, Alexander	Coleman	632	30- 7-26
McCulloch, Johnston	Coleman	642	22- 2-27
Mackie, William	Drumheller	645	1- 8-27
McDonald, Thomas	Rosedale	653	12- 8-27
McFegan, Alex.	Drumheller	661	10- 9-27
McCormack, Angus D.	Castor	675	19- 7-28
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
McDonald, James W.	Mountain Park	709	1- 5-29
MacDonald, Leslie	Bellevue	713	7- 6-29

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacAllister-Thompson, D. S. B.	Rosedale	735	17- 6-29
McNab, Duncan	Lethbridge	739	17- 6-29
McAndrew, John, Jr.	Blairmore	769	4- 6-30
McDonald, William	Bellevue	777	10- 6-30
McCutcheon, Jas. A.	Midlandvale	803	18-10-30
McMurdo, Thomas	East Coulee	18	13- 7-31
McLeod, Arthur	Drumheller	50	22-10-31
McGowan, John	Drumheller	57	2- 6-32
McKinlay, James	Huxley	72	25- 6-32
McColl, Alexander	Lethbridge	109	15- 6-33
Nelson, Horatio	Lundbreck	11	3- 1-07
Nanson, Thomas H.	Bellevue	15	3- 1-07
Nicol, George	Cadomin	27	21- 4-14
Nugent, Bernard	Camrose	133	30- 8-16
Nelson, Walter W.	Coleman	462	31- 7-22
Nicholson, Peter	Cadomin	472	31- 7-22
Niskanen, Herman	Canmore	671	19- 7-28
Nisbet, George	Beverly	759	4- 6-30
Negrello, Mike	Coalhurst	7	13- 7-31
Naegeli, Otto	Midlandvale	54	26- 2-32
Novak, Mike	Milk River	56	4- 5-32
Norman, John	Beverly	136	31-10-33
Oliphant, J. H.	Carbon	26	17- 5-07
Oliphant, John	Medicine Hat	79	16- 7-09
O'Donnell, Thomas	Rosedale	139	17- 3-11
Ottewell, William J.	Clover Bar	245	31- 7-13
Oakes, Robert	Blairmore	104	10- 6-16
Oakley, John	Edmonton	115	10- 7-16
Oliver, B.	Magrath	342	26- 7-20
Owen, Thomas	Michel, B.C.	442	10- 3-22
Ostler, James	Taber	445	22- 5-22
Oldham, Albert	Luscar	579	11- 8-24
Oliver, Edward	Taber	584	14-11-24
Ottewell, Cedric P.	Clover Bar	620	25-11-25
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Prentice, John	Virginia, U.S.A.	67	1- 2-09
Powell, Albert E.	Lundbreck	71	4- 2-09
Picton, William	Frank	78	8- 7-09
Pounder, George	Pincher Creek	84	22- 9-09
Parker, Levi	Cardiff	100	18- 1-10
Pickering, Gave	Taber	104	25- 2-10
Parry, Thomas	Hillcrest	119	21- 6-10
Park, Stewart G.	Lethbridge	121	25- 6-10
Patterson, John	Hillcrest	126	17-12-10
Picton, Daniel	Aerial	178	23-11-11
Park, William	Lethbridge	194	13- 7-12
Parkes, John T.	Lethbridge	236	31- 7-13
Park, Alex. C.	Lethbridge	25	8- 4-14
Porteous, Alexander	Hillcrest	36	26- 5-14
Purdy, Stearns J.	Bellevue	37	28- 5-14
Parker, Joseph	Drumheller	47	25-11-14
Puckett, Owen L.	Robb	53	27-11-14
Pavier, Evan	Big Valley	91	27- 8-15
Price, Alfred	Montana, U.S.A.	103	4- 1-16
Pitt, Arthur J.	Coleman	108	10- 7-16
Phillips, David	Commerce	110	10- 7-16

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Price, John	Mountain Park	116	10- 7-16
Pratt, Philip	Lovettville	117	10- 7-16
Paterson, Patrick	Evansburg	139	3-10-16
Padgett, Albert	Bellevue	177	17- 7-17
Poole, Alexander	Drumheller	241	16- 5-19
Prescott, William	Hillcrest	249	26- 6-19
Painter, J. A.	Mountain Park	361	25- 7-20
Parkinson, Harry	Coleman	465	31- 7-22
Pearson, Francis	Hillcrest	468	31- 7-22
Phipps, Mathew J.	Mountain Park	494	1- 9-22
Price, John	Mountain Park	497	1-11-22
Patterson, William	Blairmore	515	17- 8-23
Parry, Robert	Coleman	546	15- 9-23
Poxon, Wilfred	Carbon	555	15-11-23
Peters, Frederick C.	Wayne	582	25- 9-24
Price, Richard	Hillcrest	590	21- 4-25
Pickard, Joseph	Edmonton	592	20- 7-25
Perry, James E.	Beynon	612	25- 7-25
Powell, John E.	Newcastle Mine P.O.	700	22- 8-28
Piper, John J.	Canmore	716	7- 6-29
Paton, George	Delburne	727	7- 6-29
Phillips, W. J.	Saunders	733	17- 6-29
Page, Joseph	Drumheller	741	19- 6-29
Peters, Wm. E.	Blairmore	762	4- 6-30
Park, Angus	Edmonton	773	4- 6-30
Patterson, S. F.	Blairmore	778	10- 6-30
Pascoe, Thomas	Mountain Park	796	14- 7-30
Potter, Harry	Drumheller	797	8- 8-30
Price, Stanley R.	Blairmore	9	13- 7-31
Pettigrew, Robert	Coleman	20	13- 7-31
Phillips, W. T.	Castor	99	10- 6-33
Popovich, Mike	Champion	112	3- 7-33
Pike, Sidney G.	Drumheller	119	24- 7-33
Quigley, Daniel H.	Drumheller	157	14- 7-11
Queen, Andrew M.	Lethbridge	228	26-12-12
Quin, James	East Coulee	66	25- 6-32
Rice, Awrey	Edmonton	48	18- 4-04
Rawson, Thomas S.	Frank	1	20-12-05
Rose, Walter	Lundbreck	54	25- 8-08
Roberts, William	Strathcona	95	3-12-09
Robinson, John H.	Hillcrest	106	31- 5-10
Rowbotham, William H.	B.C.	116	6- 6-10
Roberts, E.	Rosedale	118	20- 6-10
Richardson, Alfred	Lethbridge	125	17-12-10
Richards, George	Coleman	137	31-12-10
Roberts, John	Cadomin	140	6- 4-11
Reid, James	Canmore	158	24- 7-11
Richards, Evan	Edmonton	162	17-11-11
Richards, Samuel	Bellevue	175	17-11-11
Rawlinson, Rowland	Cadomin	182	28-11-11
Rayner, Frederick	Frank	188	8-12-11
Radford, James	Bellevue	200	22- 7-12
Rae, John	Coleman	242	31- 7-13
Rankin, William	Hosmer, B.C.	4	28-11-13
Rebar, Mike	Hardieville	19	18- 3-14
Rees, Daniel	Bellevue	56	27-11-14
Russell, Arthur	Standard	59	5-12-14
Russell, John	Ardley	67	20- 1-15
Rees, Gomer	Beverly	96	12-10-15

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Robinson, Edward	Chilliwack, B.C.	101	20-10-15
Roberts, David O.	Wayne	106	7- 7-16
Roberts, David C.	Coleman	113	10- 7-16
Randall, David	Coleman	191	10-10-17
Reid, Edward	Drumheller	206	1- 6-18
Redpath, James	Wayne	208	1- 6-18
Reid, Samuel	Brule	211	1- 6-18
Richards, Edward	Drumheller (Deceased)....	271	26- 6-19
Rollingson, John	Lethbridge	280	26- 6-19
Ruscoe, Richard	Halkirk	282	26- 6-19
Roberts, Evan	Wayne	318	26- 7-20
Royle, Edward	Blairmore	323	26- 7-20
Robertson, W. H.	Coalhurst	333	26- 7-20
Rappel, Thomas	Rosedale	337	26- 7-20
Rappel, A. J.	Calgary	355	26- 7-20
Richards, John C.	Coleman	386	1- 8-21
Richards, Thomas	Wayne	392	1- 8-21
Rees, William H.	Lethbridge	435	29- 8-21
Rowley, Arthur	Calgary	455	31- 7-22
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Roberts, Robert	Wayne	464	31- 7-22
Richards, Harold	Hillcrest	484	1- 8-22
Roberts, Lemuel	Wayne	488	1- 8-22
Richards, M. C. Russeli	Blairmore	509	17- 5-23
Rutherford, Leslie D.	Saunders West	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Roome, Richard	Mountain Park	588	24- 1-25
Rhodes, William B.	Lundbreck	625	26- 7-26
Robertson, Alexander	Lethbridge	633	30- 7-26
Ramage, John	Coalhurst	648	12- 8-27
Ray, William J.	Hillcrest	669	22- 4-28
Rees, Ernest	Hillcrest	686	1- 8-28
Rochester, John J.	Carbon	689	1- 8-28
Rolfe, Emrys	Hillcrest	691	16- 8-28
Russell, William C.	Drumheller	705	24-11-28
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Reid, Wm. P.	Lethbridge	732	17- 6-29
Radford, J. H.	Heisler	738	17- 6-29
Rogers, Benjamin	Canmore	753	5-11-29
Reed, John C.	Edmonton	779	10- 6-30
Raisbeck, A. B.	East Coulee	785	10- 6-30
Reynolds, Horace C.	Canmore	11	13- 7-31
Russell, Robert	Alix	69	25- 6-32
Roberts, Simon	Cadomin	21	13- 7-31
Radocy, Isaac C.	Aerial	23	13- 7-31
Ratliffe, Thomas	Drumheller	24	13- 7-31
Robertson, Duncan	Drumheller	47	26- 7-31
Rees, Sanford	Mountain Park	81	28- 7-32
Rhodes, George	Champion	96	10- 6-33
Rees, Edward D.	Bellevue	105	15- 6-33
Raeder, William	Elkwater	110	15- 6-33
Ross, A. W.	Delia	124	29- 7-33
Rozzolini, Albert	Raymond	126	29- 7-33
Radford, James T.	Bellevue	132	15- 9-33
Scott, Robert	Lethbridge	6	19-12-98
Sedlock, Joseph	Canmore	22	25- 6-03
Smith, Robert	Canmore	32	5-12-04
Smith, Hugh	Bellevue	35	5-12-04
Stott, John	Lethbridge	38	23-12-04

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Spencer, W. J.	Bankhead	51	6- 7-05
Salmond, James M.	Bankhead	6	20-12-05
Sparrow, Edwin	Tawatinaw	2	20-12-05
Smith, Ralph	Canmore	3	30- 5-06
Singleton, Robert	Lundbreck	47	29- 5-08
Schmidt, O. P.	Edmonton	44	1- 2-08
Sihvon, William	East Coulee	27	17- 5-07
Scott, Andrew N.	Mountain Park	28	23- 5-07
Smith, A. J. P.	Bellevue	103	21- 2-10
Shaw, Thomas J.	Hinton	113	3- 6-10
Scott, Alexander	Pocahontas	185	28-11-11
Sheratt, Owen, Sr.	Coleman	199	13- 7-12
Smith, Thomas	Hillcrest	216	1-11-12
Stobbs, Joseph	Diamond City	217	5-11-12
Shaw, Eli	Canmore	299	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Stott, John	Lethbridge (Duplicate) ...	231	7- 4-13
Stephenson, Joseph	Commerce	232	30- 4-13
Sandino, Joseph	Drumheller	238	31- 7-13
Steele, John W.	Lethbridge	17	16- 3-14
Severns, Matthew	Edmonton	42	8- 9-14
Spencer, Murray A.	Brule	43	18- 9-14
Snarey, George	Beynon	62	5-12-14
Sinclair, James	Drumheller	68	11- 1-15
Smith, John	Blairmore	94	1- 9-15
Smith, T. Edwin	Montana, U.S.A.	130	26- 7-16
Strickland, William	Evansburg	145	5- 7-17
Stratton, James M.	Taber	181	25- 7-17
Steen, Herman	Hanna	277	26- 6-19
Scott, Frederick G.	Big Valley	287	2- 9-19
Stewart, James	Lethbridge	305	26- 7-20
Smith, Thomas	Coleman	307	26- 7-20
Saunt, James	Drumheller	309	26- 7-20
Steele, Francis M.	Calgary	319	26- 7-20
Stratton, A. T.	Medicine Hat	351	261-7-20
Serrie, John	Taber	353	26- 7-20
Sutherland, Edward S.	Beverly (Deceased)	395	1- 8-21
Scott, Robert	Nordegg	399	1- 8-21
Shaw, William G.	Nordegg	409	1- 8-21
Shaw, Joseph H.	Nordegg	416	1- 8-21
Shaw, John H.	Nordegg	426	1- 8-21
Stene, David	Edmonton	430	29- 8-21
Strachan, John	Fernie, B.C.	437	29- 8-21
Sneddon, Thomas	Taber	444	3- 4-22
Shepperd, Geo. E.	Wayne	477	1- 8-22
Speager, Pete A.	Calgary	489	1- 9-22
Smith, Andrew A.	Drumheller	522	17- 8-23
Shevels, John	Bellevue	523	17- 8-23
Smith, Sidney L.	Drumheller	552	1-11-23
Studholme, John H.	Dinant	559	18-12-23
Simmons, Efner W.	Forestburg	611	25- 7-25
Stanley, Henry	Nacmine	615	1- 8-25
Severns, Matthew	Valier, Mont. (Duplicate)	621	11- 5-26
Steward, Frederick G.	Drumheller	624	26- 7-26
Shearer, Peter	Cadomin	640	22- 9-26
Smith, Terence	Edmonton	646	1- 8-27
Stewart, George W.	Nordegg	667	16- 1-28
Shandruk, Henry K.	Edmonton	695	16- 8-28
Steven, Robert	Banff	701	22- 8-28
Smith, Peter	Coleman	718	7- 6-29

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Scott, J. D.	Rosedale	722	7- 6-29
Snow, Percy E.	Lethbridge	729	7- 6-29
Strang, David	Mountain Park	746	23- 7-29
Shearer, J. C.	Rosedale	749	5- 9-29
Sherwood, Henry R.	Canmore	751	8- 8-29
Stevenson, Robert	Drumheller	757	25- 2-30
Smillie, Walter	Evansburg	772	4- 6-30
Sutherland, S. R.	Bellevue	782	10- 6-30
Sinoski, Mike	Edmonton	791	14- 6-30
Stewart, R. E.	Shaughnessy	802	10-10-30
Stene, Alexander	Cadomin	10	13- 7-31
Stanko, Martin	Drumheller	13	13- 7-31
Smith, John A.	Cadomin	31	13- 7-31
Simons, B. C.	Bellevue	36	26- 7-31
Saunders, Herbert A.	Cardiff	76	2- 7-32
Sward, Henry	Rose Lynn	104	10- 6-33
Schlender, Otto	Trochu	118	6- 7-33
Turner, Samuel	Frank (Duplicate)	22	8- 5-07
Turner, Samuel	Frank	21	25- 6-03
Taylor, William	Lethbridge	10	16- 4-01
Thompson, Thomas	Lundbreck	16	3- 1-07
Tonge, Thomas	Lundbreck	5	30- 5-06
Thomas, John J.	Frank	74	21- 4-09
Thompson, Thomas	Coleman	93	29-11-09
Thomas, Joseph D.	Aerial (Deceased)	81	25- 8-09
Thomson, Thomas W.	Bankhead	161	17-11-11
Thompson, Joseph	Coleman	165	17-11-11
Thomas, Isaac	Coleman	204	27- 7-12
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, William	Hillcrest	244	31- 7-13
Thomas, John B.	Edmonton	46	19-11-14
Thomson, Roger A.	Lovettville	66	22-12-14
Thomson, David	Lovettville	82	19- 8-15
Tennant, Robert	Drumheller	84	19- 8-15
Troman, Samuel	Lethbridge (Deceased)	87	26- 7-15
Turner, Leonard	Nordegg	125	29- 7-16
Thom, George	Mountain Park (Deceased) ..	142	12-12-16
Tennant, John	Lethbridge	165	10- 7-17
Terris, Andrew	Nordegg	170	17- 7-17
Tennant, William G.	Lethbridge	228	8- 6-18
Tisdale, James R.	Edmonton	231	8- 6-18
Thomason, Charles	Blairmore	234	14- 6-18
Talbot, William	Drumheller	235	22- 6-18
Thomson, James	Beverly	425	1- 8-21
Terris, Chapen	Gramania (Deceased)	429	1- 8-21
Thomson, George H.	Lethbridge	433	29- 8-21
Thompson, Andrew	Aerial	267	26- 6-19
Thackray, Fred	Lethbridge	281	26- 6-19
Travis, Joseph	Bankhead	303	26- 7-20
Thornhill, John E.	Coalhurst	482	1- 8-22
Tannucci, Joseph	Brule	485	1- 8-22
Tilley, John C.	Bellevue	511	30- 6-23
Taylor, William	Midlandvale	514	17- 8-23
Turner, William H.	Blairmore	525	17- 8-23
Tucker, John M.	Entwistle	528	17- 8-23
Talbot, Walter J.	Clover Bar	533	17- 8-23
Trentham, Harry	Ghost Pine	536	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
Tyldsley, Albert	Beverly	545	1- 9-23

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Thomson, Walter	Clover Bar	628	26- 7-26
Taylor, John	Drumheller	649	1- 8-27
Tompkins, David F. R.	Foothills	559	1- 9-27
Thomson, William	Edmonton	683	1- 8-28
Thomas, Edward J.	Drumheller	706	24-11-28
Thomson, John	Edmonton	758	4- 6-30
Thirlwell, Wm.	Robb	4	20- 2-31
Tyrer, Edward	Lethbridge	5	13- 7-31
Thomas, William	Luscar	38	26- 7-31
Thomas, David S.	Midlandvale	55	21- 3-32
Tyrer, Harold	Lethbridge	70	25- 6-32
Taylor, Robert	Calgary	85	24- 8-32
Tonge, Reginald	Blairmore	90	30- 9-32
Utley, Frederick W.	Bellevue	250	26- 6-19
Unsworth, Robert J.	Scapa	704	24-11-28
Urwin, Henry	Canmore	123	29- 7-33
Vola, Serafino	Canmore	63	1- 2-09
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	10- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vannucci, Luigi	Brule	629	26- 7-26
Vining, Samuel	Luscar	635	30- 7-26
Vivvurka, John	Mercoal	44	26- 7-31
Watkins, W. E.	Champion	1	14-11-98
Wilson, John	Canmore	2	15-11-98
Watkins, John W.	Canmore	3	15-11-98
Waite, Archibald	Taber	11	6- 7-03
White, Harry J.	Coalhurst	677	19- 7-28
Woolney, Karl	Bellevue	681	1- 8-28
Wiltse, Donald H.	Forestburg	688	1- 8-28
Whitehead, J. W.	Lethbridge	712	7- 6-29
Williams, L. A.	Edmonton	768	4- 6-30
Womersley, E.	Blairmore	783	10- 6-30
Williams, H. A.	Mountain Park	792	3- 7-30
White, Michael	Drumheller	806	29-10-30
Williams, Walter	Alix	29	13- 7-31
Walsh, James C.	Bellevue	34	13- 7-31
Williams, D. J.	Mountain Park	35	13- 7-31
Watkin, Geo. E.	Bittern Lake	59	2- 6-32
Walton, Geo. A.	Forestburg	67	25- 6-32
Watson, David	Leduc	77	11- 7-32
White, George	Nordegg	83	24- 8-32
Williams, Wm.	Barnwell	87	23- 9-32
Woodward, Clarence	Bellevue	94	16- 2-33
Wilkinson, James	Bragg Creek	116	3- 7-33
Watters, David G.	Drumheller	120	29- 7-33
Wiltse, Floyd N.	Forestburg	125	29- 7-33
Wilson, Charles	Lethbridge	139	8- 9-33
Webb, James F.	Canmore	42	8- 4-05
Wilson, William G.	Canmore	3	20-12-05
Watters, John	Burmis	5	20-12-05
Welsh, W. R.	Burmis	9	3- 1-07
Wrigley, Walter	Cadomin	37	10- 1-08
Willmott, William	Canmore	38	10- 1-08
Watters, A. G.	Banff	49	29- 5-08
Weston, Thomas	Edmonton	73	7- 4-09
White, Harry	Hillcrest	90	29-11-09
Williams, Walter E.	Edmonton	213	31-10-12
Williams, John J.	Edmonton	223	25-11-12

List of Names of Holders of Third Class Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Whitefield, Isaac	Coalhurst	15	10- 3-14
Williams, John T.	Bellevue	33	23- 5-14
Wesnedge, William	Nanaimo, B.C.	58	5-12-14
Wardrop, James	Canmore	72	16- 2-15
Worthington, Thomas	Lethbridge	92	1- 9-15
Wallwork, William	Taber	118	10- 7-16
Watkins, James M.	Taber	128	26- 7-15
Williams, Albert	Edmonton	138	25- 9-16
Wilcox, William J.	Edson	140	11-11-16
Willetts, Frederick	Lethbridge	162	10- 7-17
Wilson, Alexander	Midlandvale	169	17- 7-17
Wolstoncroft, Robert	Commerce	175	17- 7-17
Watson, Adam G.	Calgary	215	1- 6-18
Wheatcroft, Fred, Jr.	Drumheller	225	8- 6-17
White, John M.	Lethbridge	233	14- 6-18
Warren, Michael	Edmonton	304	26- 7-20
Womersley, Alfred	Redcliff	316	26- 7-20
Wright, S. P. T.	Coalhurst	336	26- 7-20
Walker, H. M.	Bellevue	368	26- 7-20
Watson, James	Edmonton	378	1- 8-21
Woollett, Charles	Edmonton	379	1- 8-21
Walker, Charles C.	Wayne	385	1- 8-21
White, William	Hillcrest	388	1- 8-21
White, Alfred	Hillcrest	389	1- 8-21
Wheatcroft, George L.	Wayne	394	1- 8-21
Wilkie, John	Sheerness	405	1- 8-21
White, Robert	Nordegg	411	1- 8-21
White, William	Coleman	427	1- 8-21
Whyte, William	Lethbridge	446	16- 6-22
Williamson, John B.	Cadomin	473	31- 7-22
Wood, Matthew	Bellevue	508	17- 5-23
Wylie, James	Commerce	520	17- 8-23
Weaver, William	Natal, B.C.	530	17- 8-23
Whitelaw, William	Blairmore	532	17- 8-23
Whelan, Charles J.	Newcastle P.O.	556	4-12-23
Williamson, David S.	Camrose	558	18-12-23
Waller, Herbert	Natal, B.C.	562	28-12-23
Willetts, Norman	Hillcrest	571	24- 7-24
Williams, Hugh	Nordegg	577	1- 8-24
Wilton-Clark, Harry	Bellevue	594	20- 7-25
Wheatley, Frank M.	Banff	599	20- 7-25
Wiswell, Byron	Blairmore	637	6- 8-26
Wilson, Samuel	Drumheller	639	20- 8-26
Whittaker, William C.	Coal Valley	643	25- 5-27
Westcott, Henry M.	Wayne	651	1- 8-27
Warneboldt, Julius	Sheerness	658	1- 9-27
Withington, Harry E.	Newcastle P.O.	664	14-10-27
Young, Thomas	Taber	57	11- 1-09
Young, Samuel	Cardiff	101	18- 1-10
Young, David B.	Blairmore	581	25- 9-24
Yates, James	Coleman	504	15- 2-23
Young, Robert	Newcastle P.O.	603	25- 7-25
Young, Robert	Newcastle P.O.	788	14- 6-30
Zak, Albert	Commerce	324	26- 7-20

List of Names of Holders of Mine Surveyors' Certificates Issued by the Government of the Province of Alberta to December 31, 1933:

Name	Address	Cert. No.	Date of Issue
Aspinall, Francis	Vancouver	1	7- 8-15
Adam, William A.	Lethbridge	40	21- 8-15
Ashburner, Edward	Medicine Hat	79	1- 9-15
Allen, Peter	Wayne	109	23-11-15
Atkins, Cecil B.	Edmonton	162	17- 7-23
Brown, John	Calgary	30	20- 8-15
Billington, Edward E.	England	42	23- 8-15
Bilterynt, Jean	Calgary	73	1- 9-15
Black, Ernest D.	England	75	1- 9-15
Baxter, Andrew W.	Calgary	119	23-11-15
Brown, Hugh R.	Carbon	125	10- 7-16
Brown, Thomas	Edmonton	133	17-11-17
Burgess, Wilfred D.	Trail, B.C.	169	18-12-23
Coulthard, Robert W.	Toronto, Ont.	20	7- 8-15
Church, James A. H.	Nova Scotia	21	7- 8-15
Charlesworth, Lionel C.	Edmonton	22	7- 8-15
Charbonnier, Jules	Blairmore	72	1- 9-15
Cautley, Reginald H.	Edmonton	81	1- 9-15
Cook, Arnold B.	Calgary	113	23-11-15
Cumming, Charles H.	Edmonton	135	3- 7-18
Crowder, Harry	Drumheller	152	26- 7-18
Congdon, Milton H.	Blairmore	157	1- 8-21
Clement, Adolph L.	Cadomin	158	1- 8-21
Cameron, Alan E.	Edmonton	154	9- 3-21
Carthew, John T.	England	164	17- 7-23
Chavignaud, Louis G.	Hinton	165	17- 7-23
Drinnan, Robert G.	Edmonton	8	7- 8-15
DeHart, Joseph B.	Lethbridge	45	23- 8-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Dunn, Alex. C.	Edmonton	55	23- 8-15
Darbyshire, James	Edmonton (Deceased) ...	69	1- 9-15
Duggan, William H.	Foothills	84	1- 9-15
Driscoll, Alfred	Edmonton (Deceased) ...	91	7- 9-15
Dennis, Frederick W.	England	100	9- 9-15
Davis, Alfred	Lethbridge	114	23-11-15
Daniell, G. W. B.	Nanaimo, B.C.	126	10- 7-16
Donaldson, C. S.	Lethbridge	151	26- 7-20
Dewis, Clifford S.	Canmore	163	1- 8-22
Drinnan, R. G., Jr.	Edmonton	181	8- 8-30
Elliott, Edward P.	Pocahontas	33	20- 8-15
Ellis, William	Three Hills	94	7- 9-15
Evans, Daniel	Vancouver, B.C. (Deceased)	123	29-12-15
Elliott, G. R.	Calgary	150	26- 7-20
Fraser, Norman	Edmonton	15	7- 8-15
Foot, Robert G.	Coleman	54	23- 8-15
Finnie, Oswald S.	Ottawa	57	23- 8-15
Flint, William G.	Edmonton	76	1- 9-15
Fortner, Edward	Tennessee, U.S.A.	83	1- 9-15
Foster, William	Robb	167	1- 9-23
French, Merritt H.	Calgary	3	22- 8-33
Green, Raoul	Calgary	70	1- 9-15
Gallon, Emile	France	89	7- 9-15
Gray, David	Washington, U.S.A.	110	23-11-15
Graham, A. E.	Coleman	168	15- 9-23
Gardner, H. H.	Coleman	180	23- 7-29
Hutchison, David	Hillcrest	29	20- 8-15
Huntrods, E. S. F.	Taber (Deceased)	34	20- 8-15
Holden, James O. E.	Drumheller (Deceased) ...	46	23- 8-15

List of Names of Holders of Mine Surveyors' Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Hardie, W. D. L.	Lethbridge	50	23- 8-15
Hargreaves, James	Victoria, B.C.	52	23- 8-15
Hamilton, James F.	Lethbridge	67	1- 9-15
Henderson, Thomas R.	Scotland	56	23- 8-15
Hutchison, William	Hillcrest	68	1- 9-15
Hamilton, Robert	Three Hills	74	1- 9-15
Horne, Thomas	Edson	82	1- 9-15
Hyde, Marcus L.	California	95	7- 9-15
Hamilton, W. L.	Winnipeg, Man. (Deceased)	117	23-11-15
Hamilton, Allan	Drumheller	131	7- 7-17
Hall, W. E. G.	Cadomin	143	2- 7-19
Hetherington, W. B.	B.C.	144	9- 7-19
Higgins, Alexander	Calgary	145	15- 7-19
Hollies, R. T.	Calgary	153	9- 3-21
Hunter, A. B.	Drumheller	156	1- 8-21
Howells, N.	Wayne	160	3-11-21
Hnatyshyn, Andrew C.	Luscar	171	24- 7-24
Hughes, Edward	Mayerthorpe	174	25- 9-24
Jones, Samuel A.	Nanaimo, B.C.	26	19- 8-15
Jones, David	Edmonton	32	20- 8-15
Johnson, Moses	Blairmore	130	7- 7-17
Knight, Richard R.	Edmonton (Deceased)	96	9- 9-15
Kellock, George	Coleman	105	23-11-15
Knight, Sidney	Ottawa	122	3-12-15
Kidd, G. L. S.	Drumheller	132	10-10-17
Kelly, O. G.	Carbondale	2	29- 7-33
Livingstone, Robert	Lethbridge	9	7- 8-15
Lee, Robert J.	Estevan, Sask.	64	1- 9-15
Lavoie, G. A.	United States	44	23- 8-15
Lyster, H. M.	Toronto, Ont.	77	1- 9-15
Leblanc, Emile	Wayne	107	23-11-15
Lindoe, Luke	Coleman	136	3- 7-18
Lewis, John W.	Mountain Park	159	10-10-21
Morris, R. H.	Virginia, U.S.A.	17	7- 8-15
Milne, M. C.	Virginia, U.S.A.	78	1- 9-15
Mills, H. W.	Victoria, B.C. (Deceased) ..	92	7- 9-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Millar, A. A.	Edmonton	97	9- 9-15
Meldrum, Wm.	Lethbridge	98	9- 9-15
Moodie, K. S.	Vancouver	101	9- 9-15
Marshall, J. W.	Evansburg	106	23-11-15
Marsh, John	Drumheller	124	4- 4-16
Morgan, O.	Saunders	148	26- 7-20
Moore, H. D.	Edmonton	149	26- 7-20
Millen, John	Trail	172	24- 7-24
Melnyk, N.	Cadomin	182	10- 9-30
Morgan, T. E.	Hillcrest	183	29-10-30
McNeill, W. F.	Calgary	6	7- 8-15
McLeod, John A.	Coleman	35	20- 8-15
McLenhan, J. A.	Coalspur	37	21- 8-15
Macaulay, A. G.	Midlandvale	41	23- 8-15
Macaulay, D. A.	Drumheller	60	31- 8-15
McCulloch, James	Vancouver, B.C.	104	23-11-15
McDonald, Duncan	Drumheller	118	23-11-15
McDonald, John R.	Edmonton (Deceased)	128	22- 2-17
McMullen, Arthur	Nordegg	1	26- 7-31
O'Donnell, Thomas	Rosedale	102	9- 9-15
Pitcher, Norman C.	Edmonton	10	7- 8-15
Parker, J. L.	Lundbreck	11	7- 8-15

List of Names of Holders of Mine Surveyors' Certificates—(Continued)

Name	Address	Cert. No.	Date of Issue
Pickles, Wm.	Dinant	24	18- 8-15
Puckett, O. L.	Robb	31	20- 8-15
Ponton, G. M.	Calgary	63	1- 9-15
Piard, Marc	Bellevue	88	7- 9-15
Powell, A. E.	Lundbreck	108	23-11-15
Pascoe, Thomas	Mountain Park	178	1- 8-27
Quigley, Daniel H.	Coalhurst	142	2- 7-19
Reid, J. C.	Oklahoma, U.S.A.	12	7- 8-15
Richards, J. A.	Edmonton	13	7- 8-15
Robertson, J. D.	Edmonton (Deceased)	23	7- 8-15
Richards, C. C.	Calgary (Deceased)	43	23- 8-15
Robertson, J.	Drumheller	61	1- 9-15
Reid, A. H.	Oklahoma, U.S.A.	62	1- 9-15
Robert, L. P.	Blairmore	65	1- 9-15
Raisbeck, Luke	Drumheller	103	23-11-15
Ritchie, D. W.	Edmonton	134	28- 6-18
Robinson, W. E.	Coleman	139	11- 7-18
Riddell, J. G.	Coleman	147	26- 7-21
Richards, M. C. Russell	Blairmore	166	15- 9-23
Stockett, Lewis	Calgary	2	7- 8-15
Scott, A. N.	Luscar	19	7- 8-15
Stirling, John T.	Scotland	36	20- 8-15
Shanks, John	Nordegg	58	28- 8-15
Stevenson, Wm.	Hillcrest	59	31- 8-15
Stevens, Leonard C.	Edmonton	66	1- 9-15
Sutherland, C. C.	Seattle, Wash.	86	3- 9-15
Stevenson, J.	Scotland	116	23-11-15
Sherwin, P. M.	Frank	127	22- 1-17
Smith, T. E.	Montana, U.S.A.	137	3- 7-18
Steele, F. M.	Calgary	146	23- 3-20
Sparks, H. E.	Ontario	155	1- 8-21
Shanks, David	Nordegg	162	3- 4-22
Shaw, Norman	Edmonton	170	16- 7-24
Stewart, R. T.	Edmonton	173	11- 8-24
Thorne, B. L.	Calgary	18	7- 8-15
Thomas, J. D.	Nacmine (Deceased)	115	23-11-15
Turner, J. H.	Coalhurst (Deceased)	141	2- 7-19
Utley, Frederick W.	Bellevue	177	26- 7-26
Wilson, D. G.	Banff	5	7- 8-15
Whiteside, O. E. S.	Coleman	27	19- 8-15
Williams, A. E.	Saunders	38	21- 8-15
Williams, T. B.	Calgary	48	23- 8-15
Watson, R. H.	Edmonton	53	23- 8-15
Watters, John	Banff	87	3- 9-15
Wilson, W. R.	Fernie, B.C.	90	7- 9-15
Wark, S. D.	Sointula, B.C. (Deceased)	99	9- 9-15
Wheeler, James S.	Calgary	112	23-11-15
Wright, Edwin	Fernie, B.C.	138	11- 7-18
Wilton, Clark Harry	Coleman	175	20- 7-25
Wilson, William	Clover Bar	176	14- 8-25
Whittaker, William C.	Coleman	179	6- 8-27

Certificates issued previous to September 1, 1905, were issued under the provisions of The Coal Mines Regulation Ordinance of the North-West Territories.

INTERCHANGE FIRST CLASS

Cumberford, James	Drumheller	80	19- 1-31
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Annual report.
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